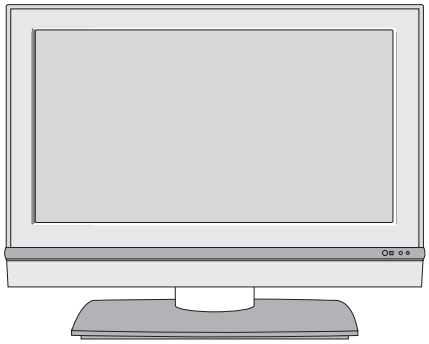
website:http://biz.LGservice.com
e-mail:http://www.LGEservice.com/techsup.html

LCD TV
SERVICE MANUAL

CHASSIS : LA51D
FACTORY NAME : 42LC2D-UD

MODEL : 42LC2D

CAUTION
BEFORE SERVICING THE CHASSIS,
READ THE SAFETY PRECAUTIONS IN THIS MANUAL.



CONTENTS

SAFETY PRECAUTIONS

IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by ⚠ in the Schematic Diagram and Replacement Parts List.
It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent Shock, Fire, or other Hazards.
Do not modify the original design without permission of manufacturer.

General Guidance

An **isolation Transformer should always be used** during the servicing of a receiver whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks.

It will also protect the receiver and it's components from being damaged by accidental shorts of the circuitry that may be inadvertently introduced during the service operation.

If any fuse (or Fusible Resistor) in this TV receiver is blown, replace it with the specified.

When replacing a high wattage resistor (Oxide Metal Film Resistor, over 1W), keep the resistor 10mm away from PCB.

Keep wires away from high voltage or high temperature parts.

Before returning the receiver to the customer,

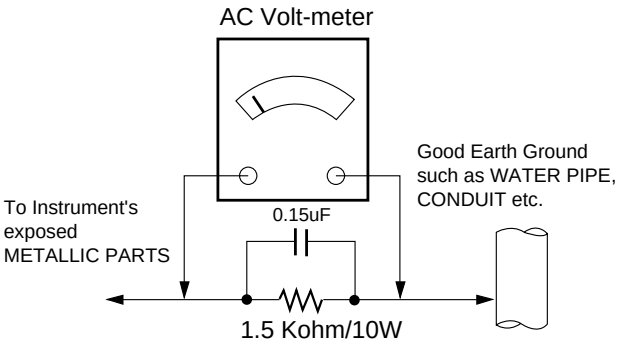
always perform an **AC leakage current check** on the exposed metallic parts of the cabinet, such as antennas, terminals, etc., to be sure the set is safe to operate without damage of electrical shock.

Leakage Current Cold Check(Antenna Cold Check)
With the instrument AC plug removed from AC source, connect an electrical jumper across the two AC plug prongs. Place the AC switch in the on position, connect one lead of ohm-meter to the AC plug prongs tied together and touch other ohm-meter lead in turn to each exposed metallic parts such as antenna terminals, phone jacks, etc.
If the exposed metallic part has a return path to the chassis, the measured resistance should be between 1MΩ and 5.2MΩ.
When the exposed metal has no return path to the chassis the reading must be infinite.
An other abnormality exists that must be corrected before the receiver is returned to the customer.

Leakage Current Hot Check (See below Figure)
Plug the AC cord directly into the AC outlet.

Do not use a line Isolation Transformer during this check.
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.
Measure the AC voltage across the resistor using AC voltmeter with 1000 ohms/volt or more sensitivity.
Reverse plug the AC cord into the AC outlet and repeat AC voltage measurements for each exposed metallic part. Any voltage measured must not exceed 0.75 volt RMS which is corresponds to 0.5mA.
In case any measurement is out of the limits specified, there is possibility of shock hazard and the set must be checked and repaired before it is returned to the customer.

Leakage Current Hot Check circuit



SERVICING PRECAUTIONS

CAUTION: Before servicing receivers covered by this service manual and its supplements and addenda, read and follow the *SAFETY PRECAUTIONS* on page 3 of this publication.

NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 3 of this publication, always follow the safety precautions. Remember: Safety First.

General Servicing Precautions

1. Always unplug the receiver AC power cord from the AC power source before;
   a. Removing or reinstalling any component, circuit board module or any other receiver assembly.
   b. Disconnecting or reconnecting any receiver electrical plug or other electrical connection.
   c. Connecting a test substitute in parallel with an electrolytic capacitor in the receiver.
   CAUTION: A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.
2. Test high voltage only by measuring it with an appropriate high voltage meter or other voltage measuring device (DVM, FETVOM, etc) equipped with a suitable high voltage probe.
   Do not test high voltage by "drawing an arc".
3. Do not spray chemicals on or near this receiver or any of its assemblies.
4. Unless specified otherwise in this service manual, clean electrical contacts only by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable non-abrasive applicator; 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90%-99% strength)
   CAUTION: This is a flammable mixture.
   Unless specified otherwise in this service manual, lubrication of contacts in not required.
5. Do not defeat any plug/socket B+ voltage interlocks with which receivers covered by this service manual might be equipped.
6. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
7. Always connect the test receiver ground lead to the receiver chassis ground before connecting the test receiver positive lead.
   Always remove the test receiver ground lead last.
8. *Use with this receiver only the test fixtures specified in this service manual.*
   CAUTION: Do not connect the test fixture ground strap to any heat sink in this receiver.

Electrostatically Sensitive (ES) Devices

Some semiconductor (solid-state) devices can be damaged easily by static electricity. Such components commonly are called *Electrostatically Sensitive (ES) Devices.* Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed to prevent potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron and appropriate tip size and shape that will maintain tip temperature within the range or 500 °F to 600 °F.
2. Use an appropriate gauge of RMA resin-core solder composed of 60 parts tin/40 parts lead.
3. Keep the soldering iron tip clean and well tinned.
4. Thoroughly clean the surfaces to be soldered. Use a mall wire-bristle (0.5 inch, or 1.25cm) brush with a metal handle.
   Do not use freon-propelled spray-on cleaners.
5. Use the following unsoldering technique
   a. Allow the soldering iron tip to reach normal temperature. (500 °F to 600 °F)
   b. Heat the component lead until the solder melts.
   c. Quickly draw the melted solder with an anti-static, suction-type solder removal device or with solder braid.
   CAUTION: Work quickly to avoid overheating the circuitboard printed foil.
6. Use the following soldering technique.
   a. Allow the soldering iron tip to reach a normal temperature (500 °F to 600 °F)
   b. First, hold the soldering iron tip and solder the strand against the component lead until the solder melts.
   c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.
   CAUTION: Work quickly to avoid overheating the circuit board printed foil.
   d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.

IC Remove/Replacement

Some chassis circuit boards have slotted holes (oblong) through which the IC leads are inserted and then bent flat against the circuit foil. When holes are the slotted type, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 and 6 above.

Removal

1. Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.
2. Draw away the melted solder with an anti-static suction-type solder removal device (or with solder braid) before removing the IC.

Replacement

1. Carefully insert the replacement IC in the circuit board.
2. Carefully bend each IC lead against the circuit foil pad and solder it.
3. Clean the soldered areas with a small wire-bristle brush. (It is not necessary to reapply acrylic coating to the areas).

"Small-Signal" Discrete Transistor Removal/Replacement

1. Remove the defective transistor by clipping its leads as close as possible to the component body.
2. Bend into a "U" shape the end of each of three leads remaining on the circuit board.
3. Bend into a "U" shape the replacement transistor leads.
4. Connect the replacement transistor leads to the corresponding leads extending from the circuit board and crimp the "U" with long nose pliers to insure metal to metal contact then solder each connection.

Power Output, Transistor Device Removal/Replacement

1. Heat and remove all solder from around the transistor leads.
2. Remove the heat sink mounting screw (if so equipped).
3. Carefully remove the transistor from the heat sink of the circuit board.
4. Insert new transistor in the circuit board.
5. Solder each transistor lead, and clip off excess lead.
6. Replace heat sink.

Diode Removal/Replacement

1. Remove defective diode by clipping its leads as close as possible to diode body.
2. Bend the two remaining leads perpendicular y to the circuit board.
3. Observing diode polarity, wrap each lead of the new diode around the corresponding lead on the circuit board.
4. Securely crimp each connection and solder it.
5. Inspect (on the circuit board copper side) the solder joints of the two "original" leads. If they are not shiny, reheat them and if necessary, apply additional solder.

Fuse and Conventional Resistor Removal/Replacement

1. Clip each fuse or resistor lead at top of the circuit board hollow stake.
2. Securely crimp the leads of replacement component around notch at stake top.
3. Solder the connections.
   CAUTION: Maintain original spacing between the replaced component and adjacent components and the circuit board to prevent excessive component temperatures.

Circuit Board Foil Repair

Excessive heat applied to the copper foil of any printed circuit board will weaken the adhesive that bonds the foil to the circuit board causing the foil to separate from or "lift-off" the board. The following guidelines and procedures should be followed whenever this condition is encountered.

At IC Connections

To repair a defective copper pattern at IC connections use the following procedure to install a jumper wire on the copper pattern side of the circuit board. (Use this technique only on IC connections).

1. Carefully remove the damaged copper pattern with a sharp knife. (Remove only as much copper as absolutely necessary).
2. carefully scratch away the solder resist and acrylic coating (if used) from the end of the remaining copper pattern.
3. Bend a small "U" in one end of a small gauge jumper wire and carefully crimp it around the IC pin. Solder the IC connection.
4. Route the jumper wire along the path of the out-away copper pattern and let it overlap the previously scraped end of the good copper pattern. Solder the overlapped area and clip off any excess jumper wire.

At Other Connections

Use the following technique to repair the defective copper pattern at connections other than IC Pins. This technique involves the installation of a jumper wire on the component side of the circuit board.

1. Remove the defective copper pattern with a sharp knife. Remove at least 1/4 inch of copper, to ensure that a hazardous condition will not exist if the jumper wire opens.
2. Trace along the copper pattern from both sides of the pattern break and locate the nearest component that is directly connected to the affected copper pattern.
3. Connect insulated 20-gauge jumper wire from the lead of the nearest component on one side of the pattern break to the lead of the nearest component on the other side. Carefully crimp and solder the connections.
   CAUTION: Be sure the insulated jumper wire is dressed so the it does not touch components or sharp edges.

SPECIFICATION

NOTE : Specifications and others are subject to change without notice for improvement.

1. Application range

1.1 This spec sheet is applied all of the 42" LCD TV with LA51D chassis.

1.2 Not included spec and each product spec in this spec sheet apply correspondingly to the following each country standard and requirement of Buyer

2. Specification

Each part is tested as below without special appointment.

2.1 Temperature : 20±5°C

2.2 Relative Humidity : 65±10%

2.3 Power Voltage : Standard input voltage (110~240V@50/60Hz)

* Standard Voltage of each product is marked by models

2.4 Specification and performance of each parts are followed each drawing and specification by part number in accordance with BOM.

2.5 The receiver must be operated for about 20 minutes prior to the adjustment.

3. Test method

3.1 Performance : LGE TV test method followed

3.2 Demanded other specification

Safety : UL, CSA, IEC specification

EMC : FCC, ICES, IEC specification

4.General Specification(TV)

No	Item	Specification	Remark
1.	Receiving System	ATSC/64 & 256 QAM/ NTSC-M	
2.	Available Channel	1) VHF : 02~13 2) UHF : 14~69 3) DTV : 02-69 4) CATV : 01~135 5) CADTV : 01~135	
3.	Input Voltage	1) AC 100 ~ 240V 50/60Hz	
4.	Market	NORTH AMERICA	
5.	Screen Size	42 inch Wide	For 42LC2D
6.	Aspect Ratio	16:9	
7.	Tuning System	FS	
8.	LCD Module	LC420W02-B6K1	For 42LC2D
9.	Operating Environment	1) Temp : 0 ~ 40 deg 2) Humidity : ~ 80 %	
10.	Storage Environment	1)Temp : -20 ~ 60 deg 2) Humidity : 0 ~ 90 %	

5. Chroma & Brightness

CONDITION : EZ-Picture "Normal"

No	Item			Min	Typ	Max	Unit	Remark
1.	White peak brightness			400	500	600	cd/m²	HDMI input, full white
2.	Contrast Ratio			400:1	550:1			
3.	Brightness uniformity					1.3		Refer to LCD SPEC.
4.	Color coordinate	RED	X		0.640			+/- 0.03
			Y		0.341			+/- 0.03
		GREEN	X		0.287			+/- 0.03
			Y		0.610			+/- 0.03
		BLUE	X		0.146			+/- 0.03
			Y		0.069			+/- 0.03
		WHITE	X		0.285			+/- 0.03
			Y		0.293			+/- 0.03
5.	Viewing angle				176			R/L, U/D
6.	Color Temperature	Standard		8,300	9,300	10,300		<Test Signal>
		Cool		11,000	12,000	13,000		HDMI input, With 16-gray
		Warm		5,500	6,500	7,500		pattern, 6th bar from right
7.	Color Distortion, DG						%	
8.	Color Distortion, DP						deg	
9.	Color S/N, AM/FM						dB	

6. Mechanical specification

No,	Item		Content			Remark
1	Product Dimenson		Width(W)	Length(D)	Height(H)	
		Before Packing	1054	286	813.5	With Stand
		After Packing	1166	402	7950	
2	Product Weight	Only SET	37.0Kg			
		With Box	42.3Kg			

7. Component Video Input (Y, CB/PB, CR/PR)

No	Specification				Proposed
	Resolution	H-freq(kHz)	V-freq(Hz)	Pixel clock	
1.	720x480	15.73	60		SDTV ,DVD 480I
2.	720x480	15.73	59.94		SDTV ,DVD 480I
3.	720x480	31.50	60		SDTV 480P
4.	720x480	31.47	59.94		SDTV 480P
5.	1280x720	45.00	60.00		HDTV 720P
6.	1280x720	44.96	59.94		HDTV 720P
7.	1920x1080	33.75	60.00		HDTV 1080I
8.	1920x1080	33.72	59.94		HDTV 1080I

8. RGB Iinput (PC/DTV)

No	Resolution	H-freq(kHz)	V-freq.(Hz)	Pixel clock(MHz)	Proposed	
	PC					
1	720x400	31.469	70.08	28.32	DOS	O
2	640x480	31.469	59.94	25.17	VESA(VGA)	O
3	640x480	37.861	72.80	31.50	VESA(VGA)	O
4	640x480	37.500	75.00	31.50	VESA(VGA)	O
5	800x600	35.156	56.25	36.00	VESA(SVGA)	O
6	800x600	37.879	60.31	40.00	VESA(SVGA)	O
7	800x600	48.077	72.18	50.00	VESA(SVGA)	O
8	800x600	46.875	75.00	49.50	VESA(SVGA)	O
9	1024x768	48.363	60.00	65.00	VESA(XGA)	O
10	1024x768	56.476	70.06	75.00	VESA(XGA)	O
11	1024x768	60.023	75.02	78.75	VESA(XGA)	O
	DTV					
1.	720x480	31.47	59.94		SDTV 480P	
2.	720x480	31.50	60		SDTV 480P	
3.	1280x720	45.00	60.00		HDTV 720P	
4.	1280x720	44.96	59.94		HDTV 720P	
5.	1920x1080	33.75	60.00		HDTV 1080I	
6.	1920x1080	33.72	59.94		HDTV 1080I	

9. HDMI Input (PC/DTV)

No	Resolution	H-freq(kHz)	V-freq.(Hz)	Pixel clock(MHz)	Proposed	
	PC					DDC
1.	640x480	31.469	59.94	25.17	VESA(VGA)	O
2.	640x480	37.861	72.80	31.50	VESA(VGA)	O
3.	640x480	37.500	75.00	31.50	VESA(VGA)	O
4.	800x600	35.156	56.25	36.00	VESA(SVGA)	O
5.	800x600	37.879	60.31	40.00	VESA(SVGA)	O
6.	800x600	48.077	72.18	50.00	VESA(SVGA)	O
7.	800x600	46.875	75.00	49.50	VESA(SVGA)	O
8.	1024x768	48.363	60.00	65.00	VESA(XGA)	O
9.	1024x768	56.476	70.06	75.00	VESA(XGA)	O
10.	1024x768	60.023	75.02	78.75		O
	DTV					
11.	720x480	31.500	60	27.03	SDTV 480P	
12.	720x480	31.469	59.94	27.00	SDTV 480P	
13.	1280x720	45.00	60.00		HDTV 720P	
14.	1280x720	44.96	59.94		HDTV 720P	
15.	1920x1080	33.75	60.00		HDTV 1080I	
16.	1920x1080	33.72	59.94		HDTV 1080I	

ADJUSTMENT INSTRUCTION

1. Application Object

These instructions are applied to all of the LCD TV, LA51D.

2. Notes

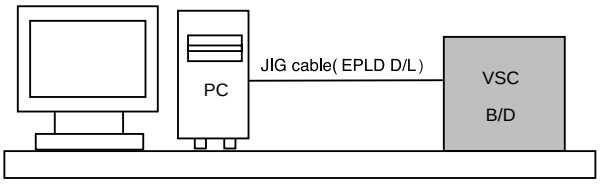
(1) Because this is not a hot chassis, it is not necessary to use an isolation transformer. However, the use of isolation transformer will help protect test equipment.
(2) Adjustments must be done in the correct order.
(3) The adjustments must be performed in the conditions of 25±5°C of temperature and 65±10% of relative humidity if there is no specific designation.
(4) The input voltage of the receiver be must kept 110V, 60Hz during adjustment.
(5) The receiver must be operational for about 15 minutes prior to the adjustments.

1) After receiving 100% white pattern, the receiver must be operated 15 minutes prior to adjustment. (or 8. White Pattern condition in EZ - Adjust)
2) Enter into White Pattern
- Pressing POWER ON Key on Service Remote Control (S R/C)
- Enter the Ez - Adjust by pressing ADJ Key on Service Remote Control (S R/C).
- Select the 8. White Pattern using CH +/- Key and press the Enter(■) Key.
Display the 100% Full White Pattern.

[The set will display white screen without a signal generator in this mode.]

If you turn on a still screen more than 20 minutes (Especially Digital pattern, Cross Hatch Pattern), an afterimage may occur in the black level part of the screen.

3. EPLD Download



<Fig 1> Connection Diagram of EPLD Download

(1) Test Equipment : PC, Jig for download
(2) Connect the power of VSC B/D.
(3) Execute download program(iMPACK) of PC.
(4) After executing the hot key on the Programmer, click icon
(5) End after confirming

4. EDID(The Extended Display Identification Data)/DDC (Display Data Channel) download

This is the function that enables “Plug and Play".

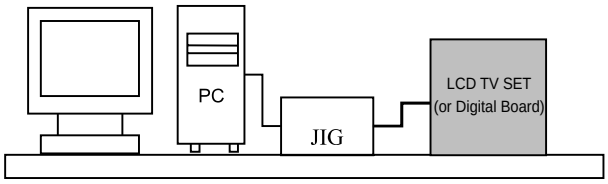
4-1. HDMI EDID Data Input

(1) Required Test Equipment

1) Jig for adjusting PC, DDC. (PC serial to D-sub. Connection equipment)
2) S/W for writing DDC(EDID data write & read)
3) D-Sub cable
4) Jig for HDMI Cable connection

(2) Preparation for Adjustments & Setting of Device

1) Set devices as below and turn on the PC and JIG.
2) Open S/W for writing DDC (EDID data write & read). (operated in DOS mode)



<Fig. 2>

4-2. EDID DATA for LA51D

EDID for HDMI 1 (DDC (Display Data Channel) Data)
EDID table =

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	00	FF	FF	FF	FF	FF	FF	00	1E	6D	01	00	01	01	01	01
10	00	0F	01	03	80	5D	34	78	0A	D4	6C	A3	57	49	9C	25
20	11	48	4B	AF	CE	00	31	4F	45	4F	61	4F	01	01	01	01
30	01	01	01	01	01	01	64	19	00	40	41	00	26	30	18	88
40	36	00	A2	08	32	00	00	18	00	00	00	FD	00	38	4B	1E
50	3D	08	00	0A	20	20	20	20	20	20	00	00	00	FC	00	34
60	32	4C	43	32	44	2D	55	44	0A	20	20	20	00	00	00	00
70	00	00	00	00	00	00	00	00	00	00	00	00	00	00	01	3A

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	02	03	13	F1	44	84	05	03	02	23	15	07	50	65	03	0C
10	00	10	00	01	1D	00	72	51	D0	1E	20	DC	28	45	04	BA
20	08	32	00	00	1E	01	1D	80	18	71	1C	16	20	94	2C	F5
30	00	A2	08	32	00	00	1E	8C	0A	D0	8A	20	E0	2D	10	3C
40	3E	E6	04	A2	08	32	00	00	18	8C	0A	D0	8A	20	E0	2D
50	10	3C	3E	E6	04	A2	08	32	00	00	18	00	00	00	00	00
60	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
70	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	AA

EDID DATA for RGB
EDID table =

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	00	FF	FF	FF	FF	FF	FF	00	1E	6D	5D	46	01	01	01	01
10	07	0F	01	03	68	5D	34	78	0A	D4	6C	A3	57	49	9C	25
20	11	48	4B	AF	CE	00	31	4F	45	4F	61	4F	01	01	01	01
30	01	01	01	01	01	01	64	19	00	40	41	00	26	30	18	88
40	36	00	A2	08	32	00	00	18	00	00	00	FD	00	38	4B	1E
50	3D	08	00	0A	20	20	20	20	20	20	00	00	00	FC	00	34
60	32	4C	43	32	44	2D	55	44	0A	20	20	20	00	00	00	00
70	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	AA

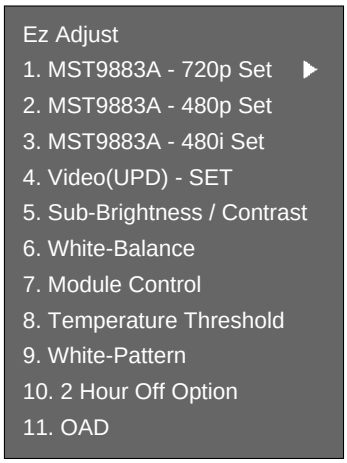
5. MST9883A-Set Adjustment

5-1. Synopsis

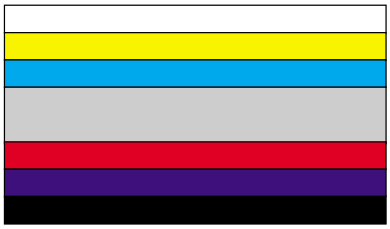
MST9883A-Set adjustment to set the black level and the Gain of optimum with an automatic movement from the analog => digital converter.

5-2. Test Equipment

Service R/C, MSPG925FA Pattern Generator(720P The Horizontal 100% Color Bar Pattern output will be possible and the output level will accurately have to be adjusted to 0.7±0.1Vp-p)



<Fig. 3> Adjustment Mode



<Fig. 4> Adjustment Pattern : 720P/60Hz HozTV31Bar Pattern
(720P/60Hz : Format No. 217, Pattern No. 65)
(480i / 60Hz : Format No. 209, Pattern No. 65)

5-3. Adjustment

(1) Select Component1 or Component2 as the input with 100% Horizontal Color Bar Pattern(HozTV31Bar) in 720p Mode and select 'Normal' on screen.
(2) After receiving signal for at least 1 second, press the ADJ Key on the Service R/C to enter the 'Ez - Adjust' and select the '2. MST9883-Set'.
Pressing the Enter Key to adjust with automatic movement.
(3) When the adjustment is over, 'MST9883 Component Success' is displayed. If the adjustment has errors, 'MST9883 Configuration Error' is displayed.
(4) After the Component MST9883 adjustment is over, convert the RGB-DTV Mode and display Pattern.
When the adjustment is over, 'MST9883 RGB_DTV Success' is displayed. If the adjustment has errors, 'MST9883 Configuration Error' is displayed.
(5) Readjust after confirming the case Pattern or adjustment condition where the adjustment had errors.
(6) After adjustment is complete, exit the adjustment mode by pressing the ADJ KEY.

6. Adjustment of White Balance

6-1. Required Equipment

(1) Color analyzer (CA-110, CA-210 or similar product)
(2) Automatic adjustor (with automatic adjustment hour necessity and the RS-232C communication being possible)
(3) Pattern Generator(MSPG-925FA) : DVI Output

[W/B DATA]

Color temperature		RS-232C command		00 DTV 04 Component1 01 Analog 05 Component2 02 Video1 06 RGB-DTV 03 Video2 07 RGB PC 08 HDMI/DVI		
		cmd1	cmd2			
Input Selection		k	b	Min	Default	Max
Cool	R	j	g	00	ae	c0
	G	j	h	00	bb	c0
	B	j	i	c0	c0	c0
Medium	R	j	a	c0	c0	c0
	G	j	b	00	B2	c0
	B	j	c	00	9a	c0
Warm	R	j	d	c0	c0	c0
	G	j	e	00	a5	c0
	B	j	f	00	5r	c0

6-2. Adjustment of White Balance

o Operate the Zero-calibration of the CA-210, then attach sensor to module surface when you adjust.
o Manual adjustment is also possible by the following sequence.

(1) Enter ‘Ez - Adjust’ by pressing ADJ KEY on the Service Remote Control.
(2) Select "8. WHITE PATTERN" using CH +/- Key and HEAT RUN at least 30 minutes by pressing the ENTER Key.
(3) Receive the Window pattern signal from Digital Pattern Generator. (AV Input: connect the ‘HDMI’)
(4) After attaching sensor to center of screen, select ‘5. White-Balance’ of ‘Ez - Adjust’ by pressing the ADJ KEY on the Service R/C. Then enter adjustment mode by pressing the Right KEY (G) .

(5) Adjust the Hight Light using R Gain/G Gain(Cool).
Adjust the Hight Light using G Gain/B Gain(Medium).
Adjust the Hight Light using G Gain/B Gain(Warm).

(6) Adjust using Volume +/- KEY.
After adjustment is complete, exit the adjustment mode by pressing the ADJ KEY.

High Level: 216gray

[Cool]
X; 0.274±0.002 Y; 0.275±0.002
Color temperature: 12000°K±1000°K

[Medium]
X; 0.287±0.002 Y; 0.289±0.002
Color temperature: 9300°K±1000°K

[Warm]
X; 0.315±0.002 Y; 0.316±0.002
Color temperature: 6500°K±1000°K

7. Video(uPD)

7-1. Required Equipment

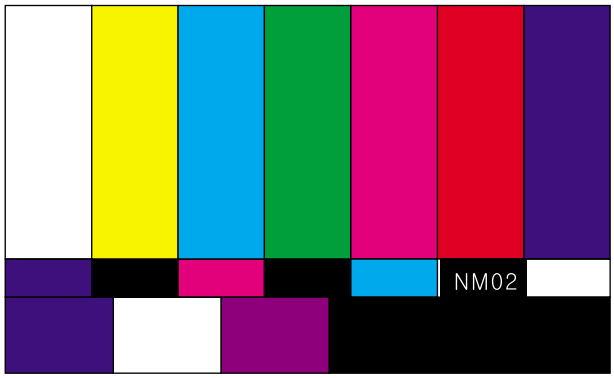
MSPG925FA Pattern Generator-connector with Video Input

7-2. MSG925FA Adjustment

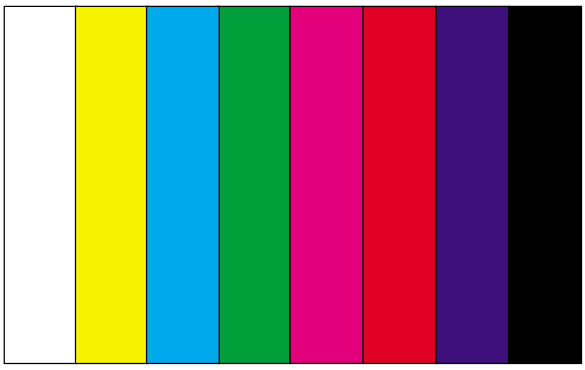
(1) After select the model, input the #201(NTSC-M).
(2) Receive the 100% Color Bar Pattern.(Pattern #33)
(3) Select the Reverse button and select the signal as below figure.

7-3. Adjustment

(1) After receive signal to Ant input, CVBS output of MSPG925FA to Video and confirm the signal receiving.
(2) Enter the ‘EZ-ADJUST’ by pressing the ADJ Key on the Service R/C.
(3) Select ‘3. Video(uPD)-Set’ and enter the adjustment mode by pressing the right key(G).
(4) When enter the adjustment mode, displayed the TV 2CH Screen automatic at picture and appear as below figure.



(5) When the automatic adjustment is over, 'RF Configuration Success’ is displayed. If the adjustment has errors, 'Video Configuration Error’ is displayed.



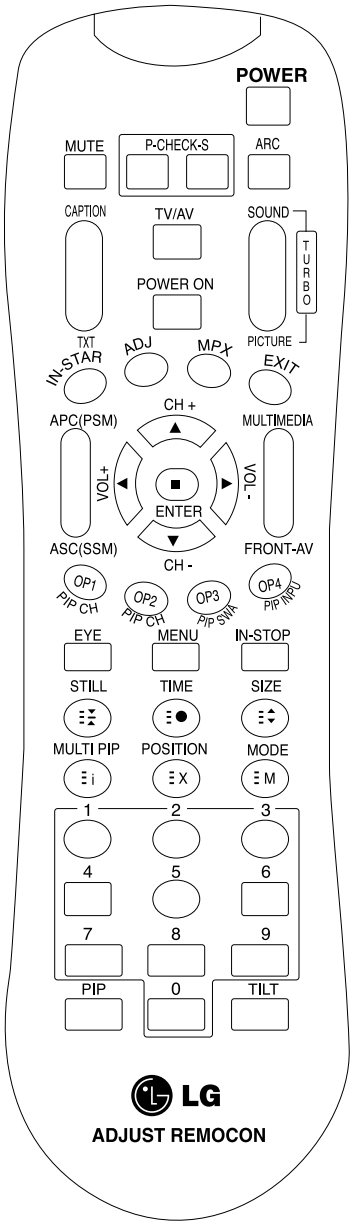
(6) After the RF signal automatic adjustment is over, convert the Video Mode as below figure and adjust with automatic movement the Video Mode.
When the automatic adjustment is over, 'Video Configuration Success’ is displayed. If the adjustment has errors, 'Video Configuration Error’ is displayed.

8. Shipping Conditions

No	Item		Condition	Remark
1	Input Mode		TV02CH	
2	Volume Level		30	
3	Mute		Off	
4	Aspect Ratio		16:9	
5.	Video	EZ Picture	Daylight	
		Contrast	100	
		Brightness	40	
		Color	70	
		Sharpness	70	
		Tint	0	
		Color-temperature	Cool	
6.	Audio	Audio Language	Off	
		EZ SoundRite	Off	
		EZ Sound	Normal	
		Balance	0	
		Treble	50	
		Bass	50	
		Front Surround	Off	
		TV Speaker	On	
		BBE	Off	
7.	Timer	Auto clock	On	
		Manual Clock	Off	
		Off Timer	Off	
		On Timer	Off	
		Sleep Timer	Off	
		Auto Off	Off	
8.	Option	Aspect Ratio	16:9	
		Cinema 3:2 mode	Off	
		Caption	Off	
		Caption/Text	CC1	
		Caption Option	Off	
		Language	English	
9.	Lock	Lock System	Off	
		Set password	On	(Default:0000)
		Block channel	None	
		Movie Rating	Off	
		TV Rating-Children	None	
		TV Rating-General	None	
		Input Block	Off	
10.	Channel Memory	RF : 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 30, 51, 63		
		CATV : 15, 16, 17		

SVC REMOCON

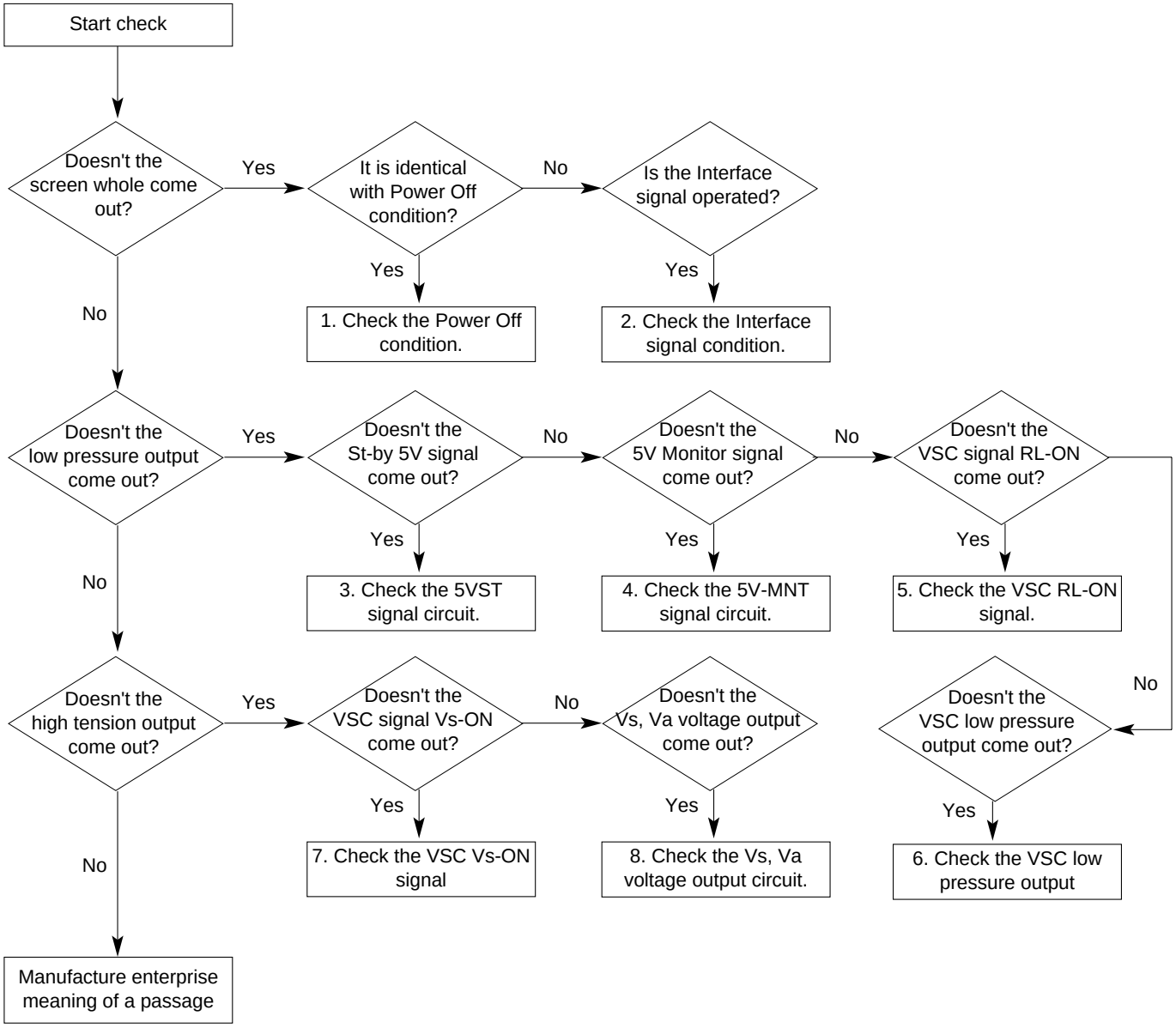
NO	KEY	FUNTION	REAMARK
1	POWER	To turn the TV on or off	
2	POWER ON	To turn the TV on automatically if the power is supplied to the TV. (Use the POWER key to deactivate): It should be deactivated when delivered.	
3	MUTE	To activate the mute function.	
4	P-CHECK	To check TV screen image easily.	Shortcut keys
5	S-CHECK	To check TV screen sound easily	Shortcut keys
6	ARC	To select size of the main screen (Normal, Spectacle, Wide or Zoom)	Shortcut keys
7	CAPTION	Switch to closed caption broadcasting	
8	TXT	To toggle on/off the teletext mode	
9	TV/AV	To select an external input for the TV screen	
10	TURBO SOUND	To start turbo sound	
11	TURBO PICTURE	To start turbo picture	
12	IN-START	To enter adjustment mode when manufacturing the TV sets.	Use the AV key to enter the screen W/B adjustment mode.
		To adjust the screen voltage (automatic): In-start →mute → Adjust → AV(Enter into W/B adjustment mode)	
		W/B adjustment (automatic): After adjusting the screen →W/B adjustment →Exit two times (Adjustment completed)	
13	ADJ	To enter into the adjustment mode. To adjust horizontal line and sub-brightness.	
14	MPX	To select the multiple sound mode (Mono, Stereo or Foreign language)	
15	EXIT	To release the adjustment mode	
16	APC(PSM)	To easily adjust the screen according to surrounding brightness	
17	ASC(SSM)	To easily adjust sound according to the program type	
18	MULTIMIDIA	To check component input	Shortcut keys
19	FRONT-AV	To check the front AV	Shortcut keys
20	CH ±	To move channel up/down or to select a function displayed on the screen.	
21	VOL ±	To adjust the volume or accurately control a specific function.	
22	ENTER	To set a specific function or complete setting.	
23	PIP CH-(OP1)	To move the channel down in the PIP screen. To use as a red key in the teletext mode	
24	PIP CH+(OP2)	To move the channel in the PIP screen To use as a green key in the teletext mode	
25	PIP SWAP(OP3)	To switch between the main and sub screens To use as a yellow key in the teletext mode	
26	PIP INPUT(OP4)	To select the input status in the PIP screen To use as a blue key in the teletext mode	
27	EYE	To set a function that will automatically adjust screen status to match the surrounding brightness so natural color can be displayed.	
28	MENU	To select the functions such as video, voice, function or channel.	
29	IN-STOP	To set the delivery condition status after manufacturing the TV set.	
30	STILL	To halt the main screen in the normal mode, or the sub screen at the PIP screen. Used as a hold key in the teletext mode (Page updating is stopped.)	
31	TIME	Displays the teletext time in the normal mode Enables to select the sub code in the teletext mode	
32	SIZE	Used as the size key in the PIP screen in the normal mode Used as the size key in the teletext mode	
33	MULTI PIP	Used as the index key in the teletext mode (Top index will be displayed if it is the top text.)	
34	POSITION	To select the position of the PIP screen in the normal mode Used as the update key in the teletext mode (Text will be displayed if the current page is updated.)	
35	MODE	Used as Mode in the teletext mode	
36	PIP	To select the simultaneous screen	
37	TILT	To adjust screen tilt	Shortcut keys
38	0~9	To manually select the channel.	



TROUBLESHOOTING

1. Power Board

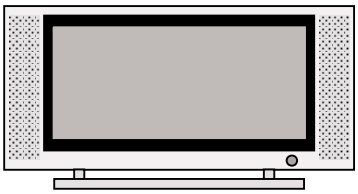
1-1. General Power Flow



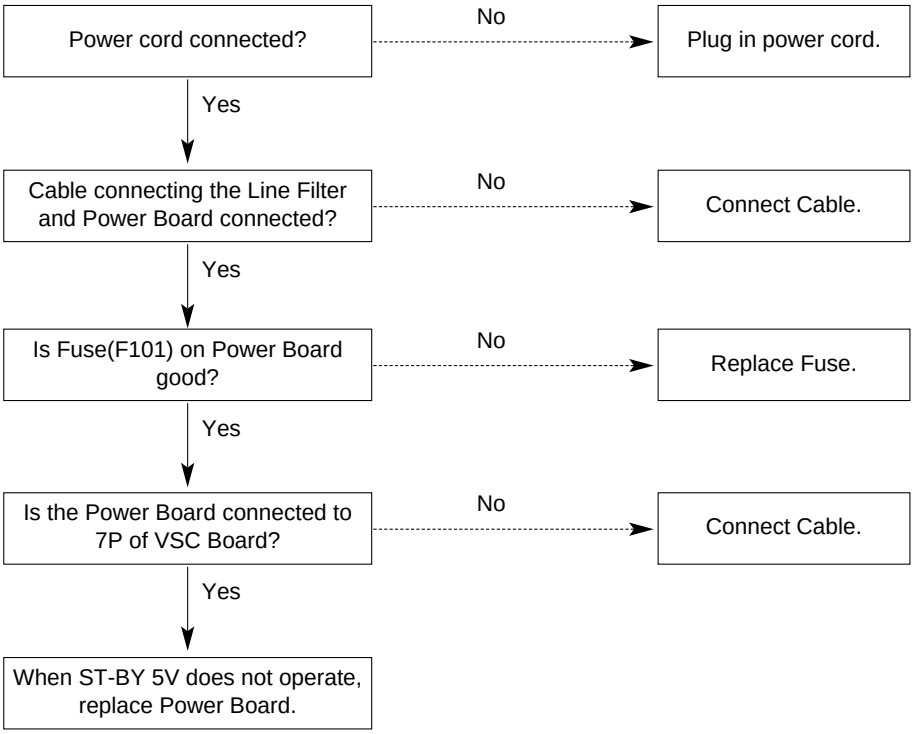
2. No Power

(1) Symptom

- Does't minute discharge at module.
- No front LED.



(2) Check follow

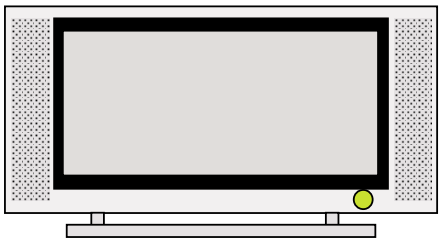


3. Abnormal Display

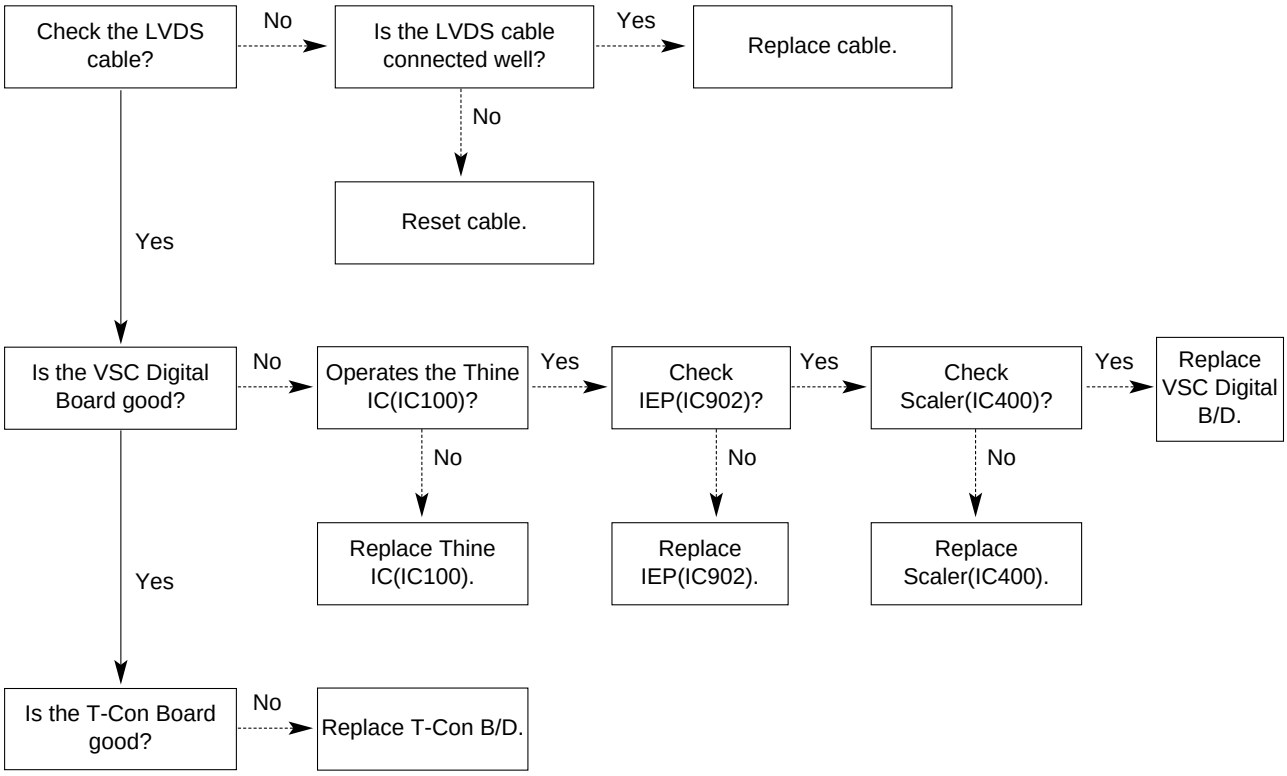
3-1. Does't display the OSD

(1) Symptom

- LED is green
- The minute discharge continuously becomes accomplished from module



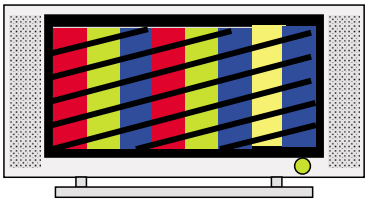
(2) Check follow



3-2. In case of does't display the screen into specific mode

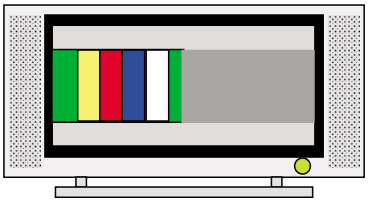
(1) Symptom

ø The screen does not become the display from specific input mode (RF, AV, Component, RGB, DVI).

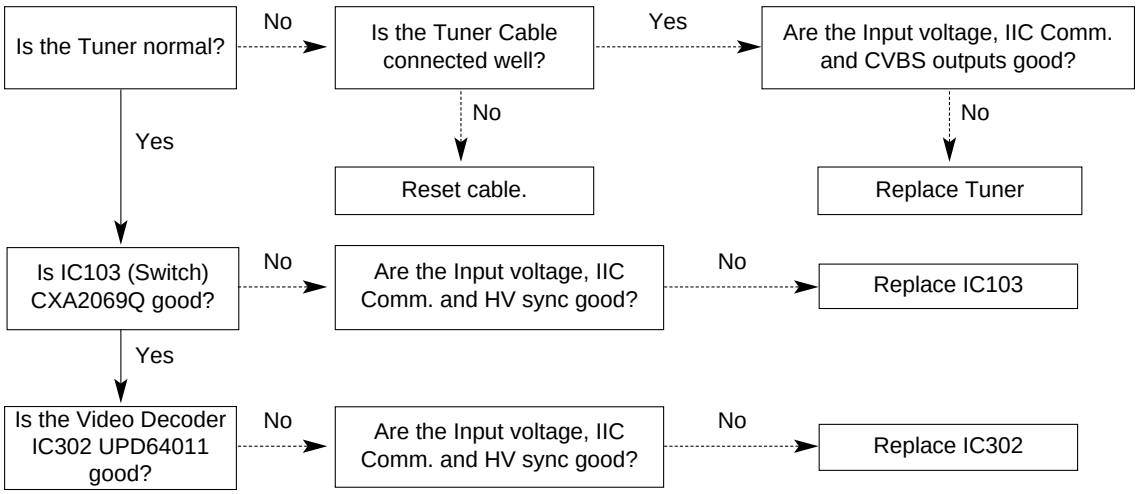


(2) Check follow

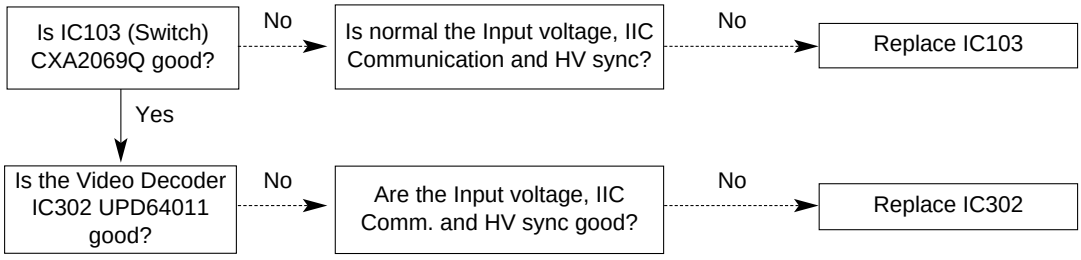
ø Check the all input mode should become normality display.



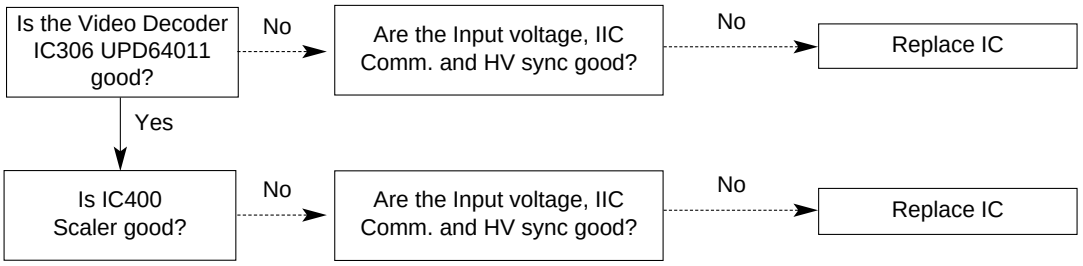
(3) Abnormal display in RF mode



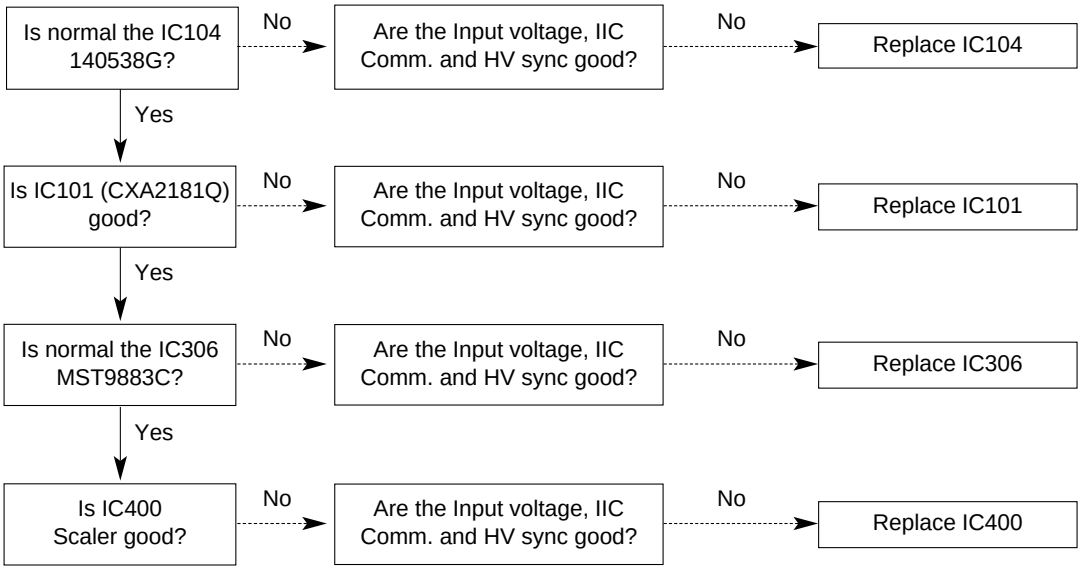
(4) Abnormal display in AV mode



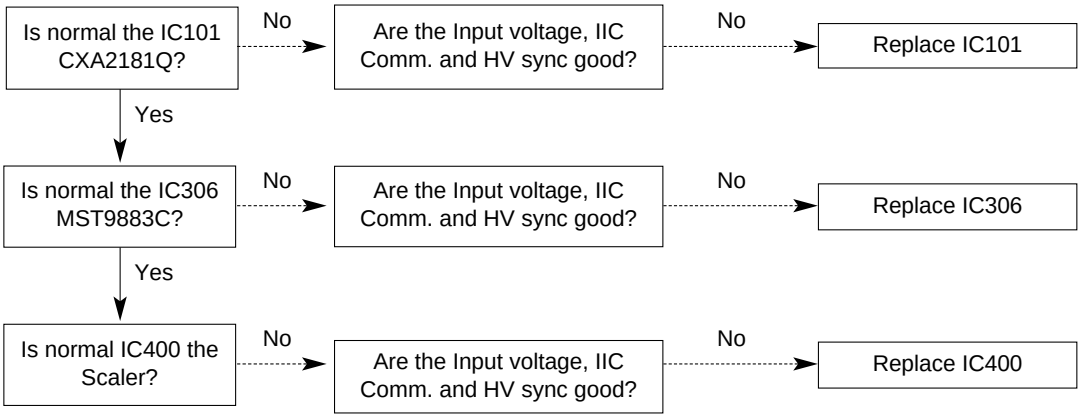
(5) Abnormal display in Component 480i mode



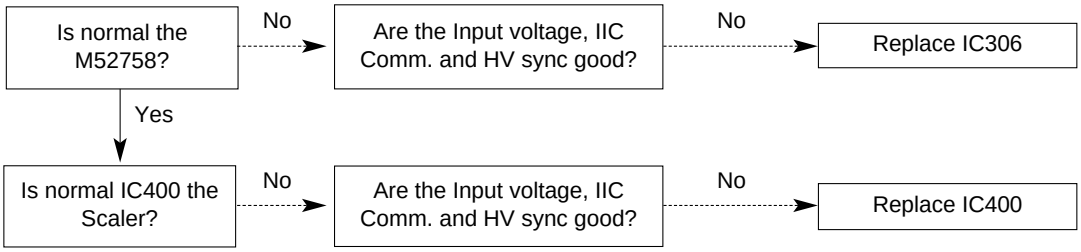
(6) Abnormal display in Component DTV mode



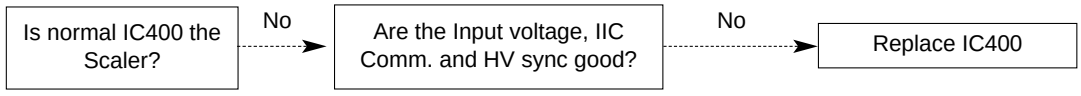
(7) Abnormal display in RGB DTV mode



(8) Abnormal display in RGB PC mode



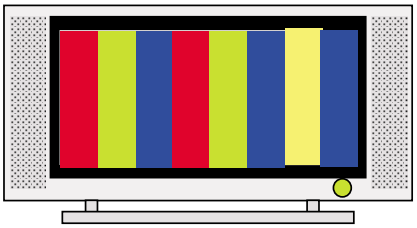
(8) Abnormal display in DVI mode



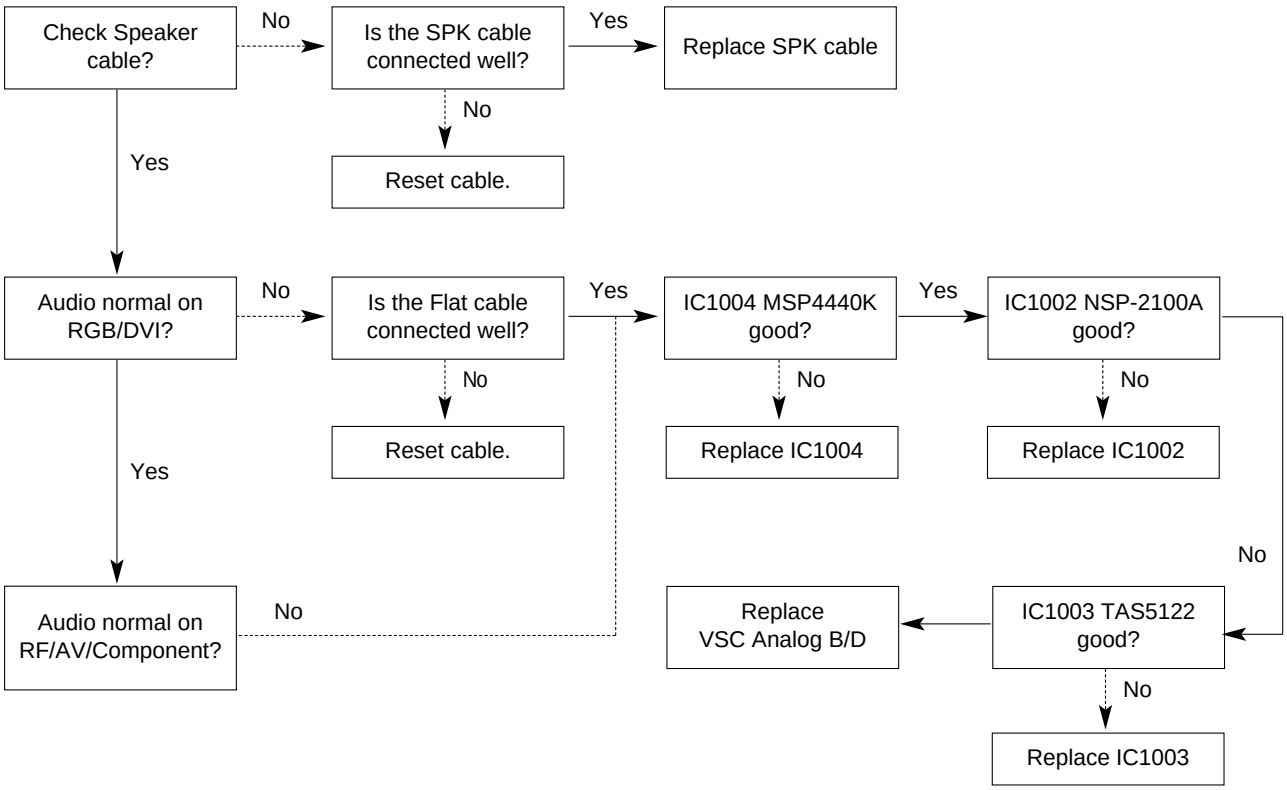
4. No sound

(1) Symptom

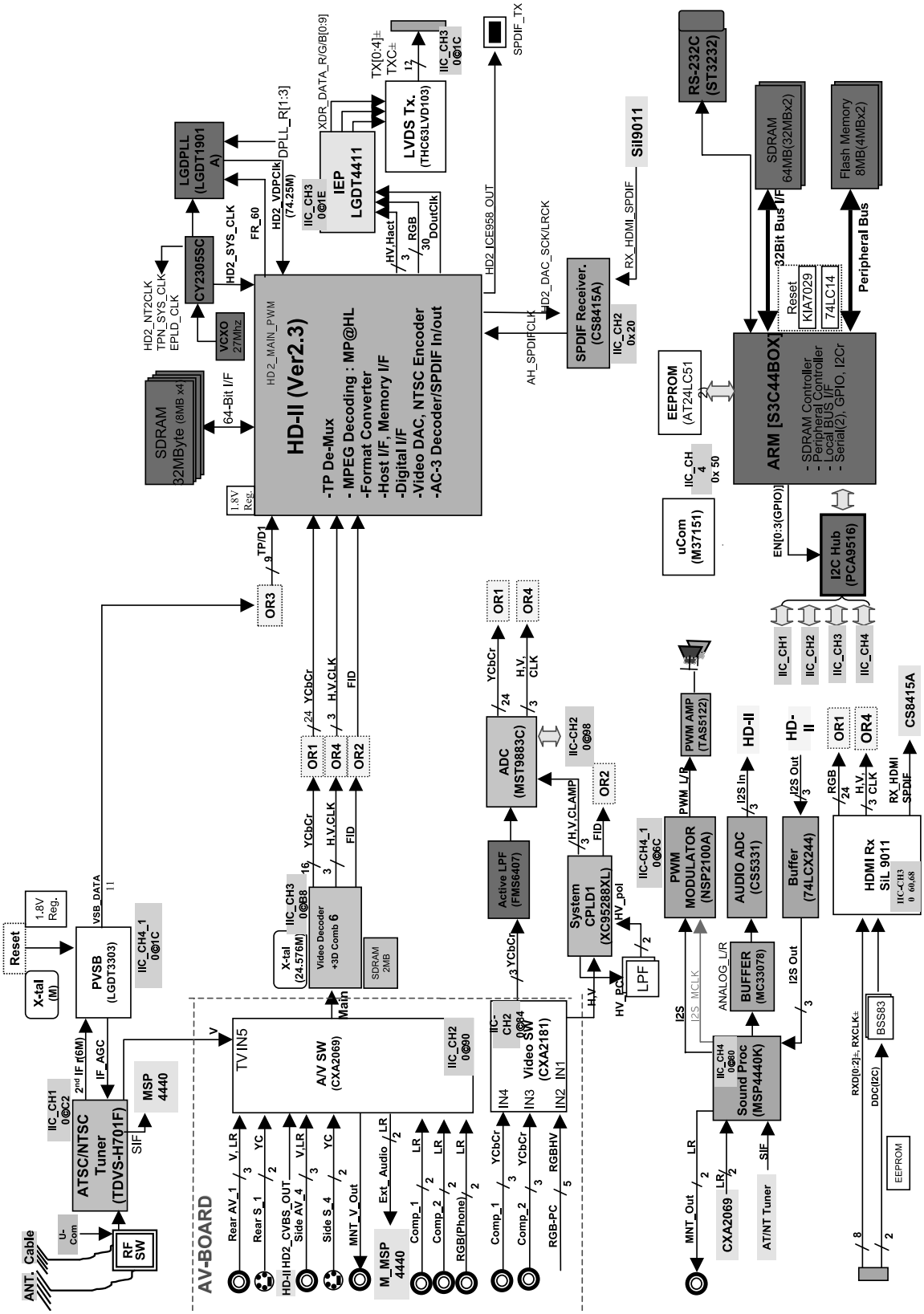
- LED is green
- Screen display but no audio



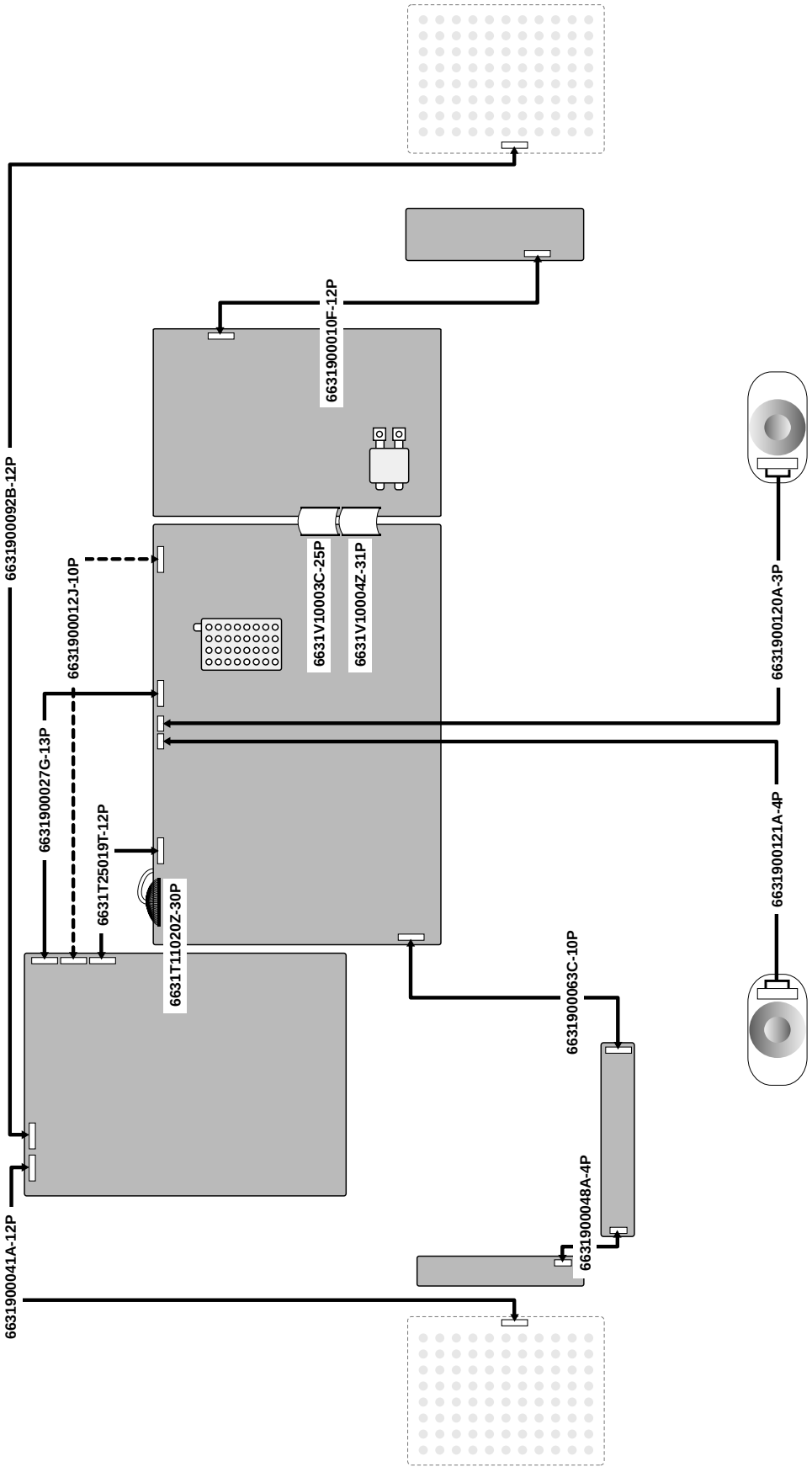
(2) Check follow



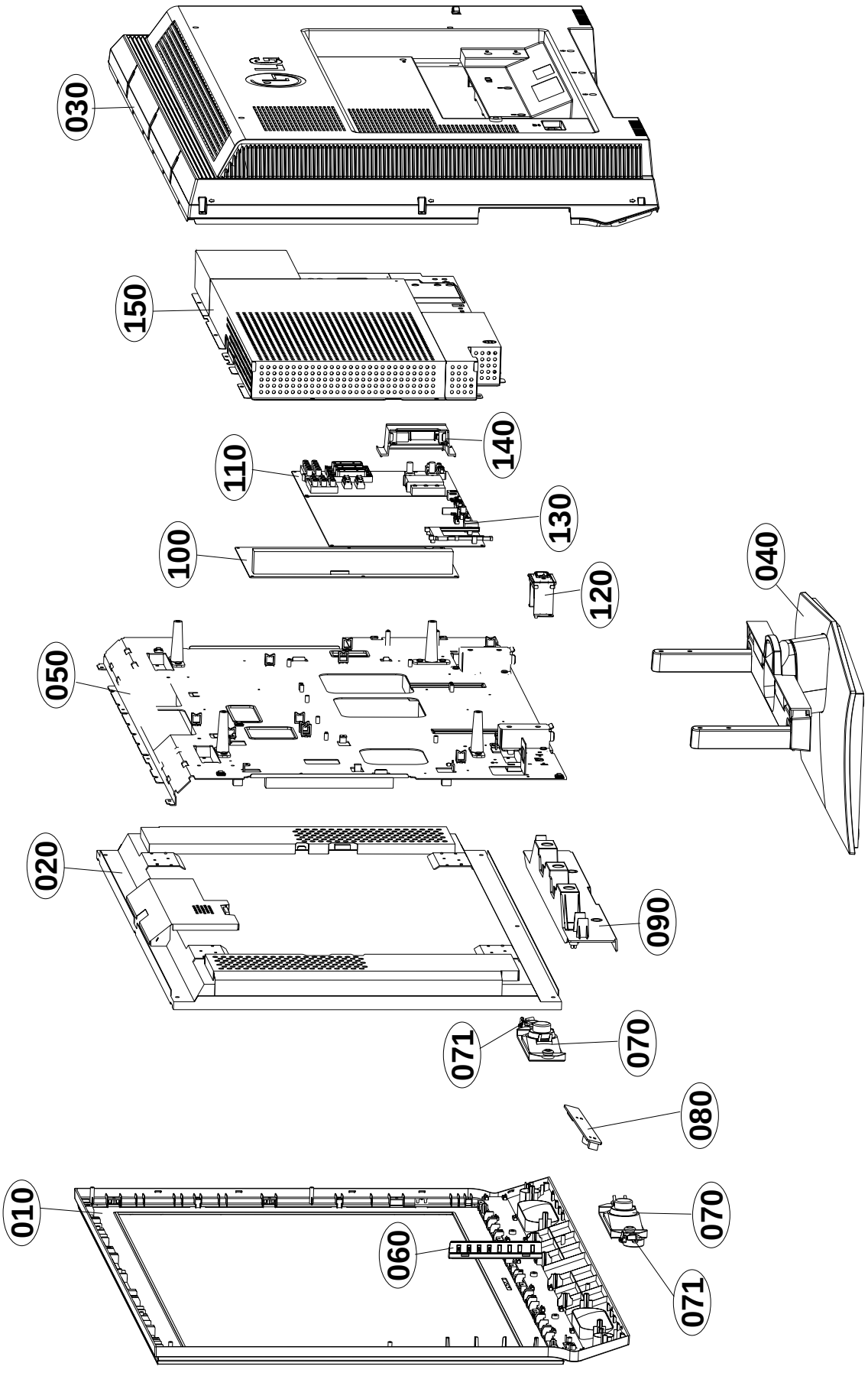
BLOCK DIAGRAM



WIRING DIAGRAM



EXPLODED VIEW



EXPLODED VIEW PARTS LIST

No.	PART NO.	DESCRIPTION
010	30919E0047A	CABINET ASSEMBLY, 42LC2D BRAND 30909E0028 USA
	30919E0047F	CABINET ASSEMBLY, 42LC2D BRAND 30909E0028 UD C/SKD
020	6304FLP295A	LCD(LIQUID CRYSTAL DISPLAY), LC420W02-B6K1 LG PHILPS TFT COLOR B6+STATUS PIN
	or 6304FLP353A	LCD(LIQUID CRYSTAL DISPLAY), LC420W02-B6K2 LG PHILIPS TFT COLOR BDF P6
030	3809900165A	BACK COVER ASSEMBLY, 42LC2 2PHONE USA
	3809900165D	BACK COVER ASSEMBLY, 42LC2 2PHONE USA C/SKD
040	3043900034B	TILT SWIVEL ASSEMBLY, 42LC2 42LC2 FOR USA
	3043900034D	TILT SWIVEL ASSEMBLY, 42LC2 42LC2 42LC2 C/SKD
050	49519S0036A	METAL ASSEMBLY, FRAME, MAIN 42LC2D-UD/ND
	49519S0036D	METAL ASSEMBLY, FRAME, MAIN 42LC2D-UD C/SKD
060	68719ST913A	PWB(PCB) ASSEMBLY,SUB, SUB T.T LA51D 42LC2D-UD ALUSLLX KEY TOTAL ASSY
070	6400WMCX03A	SPEAKER,WOOFER, G1560102 MACOM WOOFER 8OHM 15/20W 82DB OTHERS 100HZ 193*57MM
071	6400DTTX02A	SPEAKER,TWEETER, EN15D-6629 TOPTONE TWEETER(DOME) 8OHM 15/20W 78DB OTHERS LC2 MODEL
080	68719ST914A	PWB(PCB) ASSEMBLY, SUB, SUB T.T LA51D 42LC2D-UD ALUSLLX IR TOTAL ASSY
090	4980V00390A	SUPPORTER, NUT(3200KN0001A) BS SK-011T
100	6709900017A	POWER SUPPLY ASSEMBLY, 42INCH H3/E2 LCD MODEL LCD YY LB LC 42INCH
110	68719ST920A	PWB(PCB) ASSEMBLY,SUB, SUB T.T LA51D 42LC2D-UD ALUSLLX AV TOTAL
120	31419SNJ81A	CHASSIS ASSEMBLY, SUB LA51D AC INLET ASSY
130	33139D4012A	MAIN TOTAL ASSEMBLY, 42LC2D-UD BRAND LA51D
	33139D4012B	MAIN TOTAL ASSEMBLY, 42LC2D-UD(SKD) BRAND LA51D
140	68719STA37A	PWB(PCB) ASSEMBLY,SUB, SUB T.T LA51D 42LC2D-UD ALUSLL SIDE AV TOTAL ASSY
150	49519K0115F	METAL ASSEMBLY, SHIELD, MAIN DIGITAL 42LC2D-UD
	49519K0115L	METAL ASSEMBLY, SHIELD, MAIN DIGITAL 42LC2D-UD(C/SKD)

REPLACEMENT PARTS LIST

For Capacitor & Resistors, the charactors at 2nd and 3rd digit in the P/No. means as follows;	CC, CX, CK, CN, CH : Ceramic CQ : Polyestor CE : Electrolytic CF : Fixed Film	RD : Carbon Film RS : Metal Oxide Film RN : Metal Film RH : CHIP, Metal Glazed(Chip) RR : Drawing

DATE: 2006. 02. 06.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
CAPACITOR				
		C100	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1000	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1001	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1002	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1003	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1004	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1005	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C101	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1018	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1019	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1024	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1027	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1030	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1031	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1033	0CK222CK51A	2200PF 1608 50V 10% R/TP B(
		C1038	0CK222CK51A	2200PF 1608 50V 10% R/TP B(
		C1057	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C106	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1062	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1063	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1064	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1065	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1066	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1067	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7
		C1068	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7
		C1069	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C107	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1072	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1080	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7
		C1081	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7
		C1082	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7
		C1083	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7
		C1086	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1087	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7
		C1088	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7
		C1089	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7
		C109	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1090	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7
		C110	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1108	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7
		C1109	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C111	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7
		C112	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7
		C1123	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1124	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1125	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1127	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1128	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1129	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C113	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7
		C1130	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1131	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1134	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1135	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1136	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1137	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1138	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1139	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C114	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1140	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1141	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1142	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1143	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1144	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R

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		C1147	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1148	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C115	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1150	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C116	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C117	0CH5120K416	12PF 50V 5% NP0 2012 R/TP
		C119	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C120	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C123	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C125	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C128	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C130	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1300	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1301	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1303	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1304	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1305	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1306	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1312	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1313	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1314	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1317	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1318	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1320	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1323	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1324	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1325	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1326	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1327	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1328	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1331	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C137	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C141	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7
		C153	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C156	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C157	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C206	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C207	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C212	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C214	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C215	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C218	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C219	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C220	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C221	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C222	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C223	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C224	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C225	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C226	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C302	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C306	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C310	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C318	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C319	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C320	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C322	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C323	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C325	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C326	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C328	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C329	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C331	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C332	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C333	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R

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		C334	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C335	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C336	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C337	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C339	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C341	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C342	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C343	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C344	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C345	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C346	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C348	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C349	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C350	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C351	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C352	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C353	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C354	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C355	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C357	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C358	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C359	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C360	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C363	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C368	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C369	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C373	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C379	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C399	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C401	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C404	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C405	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C406	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C407	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C408	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C409	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C410	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C411	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C412	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C413	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C414	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C415	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C416	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C417	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C418	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C419	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C420	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C421	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C422	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C423	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C424	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C425	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C426	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C427	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C428	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C430	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C432	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C433	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C434	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C435	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C436	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C437	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C438	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C439	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C440	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C441	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C443	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C444	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C445	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C446	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C447	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C448	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C449	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C450	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C451	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C452	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C453	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C454	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C456	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C457	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C458	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C461	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7
		C462	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7
		C464	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7
		C465	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C466	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C467	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C468	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C469	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C470	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C471	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C472	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C473	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C475	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C476	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C477	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C478	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C479	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C481	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C482	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C484	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C500	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C501	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C502	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C503	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C504	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C505	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C506	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C507	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C508	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C509	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C510	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C511	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C512	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C513	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C514	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C515	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C516	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C517	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C518	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C519	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C520	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C521	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C522	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C523	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C524	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C525	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C526	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C527	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C534	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C602	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C603	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C604	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C606	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C607	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C608	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C609	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C610	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C652	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C653	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C707	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C714	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7
		C717	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C719	0CK472CK56A	4700PF 1608 50V 10% R/TP X7
		C725	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C801	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C802	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C803	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R

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		C811	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C812	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C815	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C816	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C823	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C900	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C903	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C905	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7
		C907	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C908	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C909	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C914	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C915	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C916	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C917	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C918	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C919	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C920	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C922	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C924	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C929	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C931	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C933	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C936	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C937	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C938	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C939	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C940	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C941	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C942	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		CC108	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		CC109	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		CC115	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		CC122	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		CC123	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		CC124	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		CC125	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		CC131	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		CC134	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		CC135	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7
		CC138	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7
		CC158	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		CC167	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		CC168	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1012	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1017	0CK105DF64A	1UF 2012 16V 20% F(Y5V) R/T
		C1023	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1028	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7
		C1032	0CK474CH94A	"0.47UF 1608 25V 80%,-20% R/"
		C1035	0CK474CH94A	"0.47UF 1608 25V 80%,-20% R/"
		C1040	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1042	0CK222CK51A	2200PF 1608 50V 10% R/TP B(
		C1043	0CK222CK51A	2200PF 1608 50V 10% R/TP B(
		C1044	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7
		C1045	0CK222CK51A	2200PF 1608 50V 10% R/TP B(
		C1047	0CK222CK51A	2200PF 1608 50V 10% R/TP B(
		C1048	0CK105DF64A	1UF 2012 16V 20% F(Y5V) R/T
		C1049	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1050	0CK222CK51A	2200PF 1608 50V 10% R/TP B(
		C1051	0CK105DF64A	1UF 2012 16V 20% F(Y5V) R/T
		C1052	0CK222CK51A	2200PF 1608 50V 10% R/TP B(
		C1053	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1054	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7
		C1073	0CK333CK56A	33000PF 1608 50V 10% R/TP X
		C1074	0CK333CK56A	33000PF 1608 50V 10% R/TP X
		C1075	0CK333CK56A	33000PF 1608 50V 10% R/TP X
		C1076	0CK333CK56A	33000PF 1608 50V 10% R/TP X
		C1093	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1094	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1096	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1100	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7
		C1105	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7
		C1106	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7
		C1112	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R

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		C1117	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7
		C1118	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7
		C1121	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1126	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1149	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1151	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1152	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C124	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C126	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C127	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C129	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1302	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1308	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1309	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1315	0CK823CK56A	82NF 1608 50V 10% R/TP X7R
		C1316	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1319	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7
		C1336	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C136	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C146	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C148	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C151	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C158	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C163	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C200	0CK334CF56A	0.33UF 1608 16V 10% X7R R/T
		C201	0CK334CF56A	0.33UF 1608 16V 10% X7R R/T
		C202	0CK334CF56A	0.33UF 1608 16V 10% X7R R/T
		C203	0CK473CK56A	47000PF 1608 50V 10% R/TP X
		C204	0CK334CF56A	0.33UF 1608 16V 10% X7R R/T
		C205	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C227	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C300	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C301	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C304	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C308	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C309	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C311	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C312	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C313	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C314	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C315	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C316	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C317	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C330	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C364	0CK473CK56A	47000PF 1608 50V 10% R/TP X
		C365	0CK473CK56A	47000PF 1608 50V 10% R/TP X
		C374	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C375	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C376	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C377	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C380	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C384	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C385	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C391	0CK473CK56A	47000PF 1608 50V 10% R/TP X
		C392	0CK473CK56A	47000PF 1608 50V 10% R/TP X
		C393	0CK473CK56A	47000PF 1608 50V 10% R/TP X
		C402	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C429	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C431	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C442	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C455	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C463	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7
		C474	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C480	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C483	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C485	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C487	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C529	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C531	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C532	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C533	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C557	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C558	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C600	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R

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		C605	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C628	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C631	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C637	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C638	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C640	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C641	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C643	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7
		C647	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C656	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C660	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C700	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7
		C704	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C706	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C708	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C709	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C715	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C721	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7
		C722	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C723	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C724	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7
		C728	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7
		C729	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7
		C730	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C820	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C904	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C913	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C921	0CK106EF56A	10UF 3216 16V 10% X7R R/TP
		C923	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C926	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C928	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C934	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C944	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C952	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C958	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C961	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		CC100	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		CC101	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		CC102	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		CC106	0CK334CF56A	0.33UF 1608 16V 10% X7R R/T
		CC107	0CK334CF56A	0.33UF 1608 16V 10% X7R R/T
		CC120	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		CC121	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		CC133	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		CC137	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7
		CC140	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		CC147	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		CC151	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		CC156	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7
		CC164	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		CC170	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7
		CC172	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		R353	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		R354	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		R355	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1009	0CC020CK01A	2PF 1608 50V 0.25 PF R/TP N
		C1010	0CC020CK01A	2PF 1608 50V 0.25 PF R/TP N
		C1015	0CC560CK41A	56PF 1608 50V 5% R/TP NP0
		C1016	0CC560CK41A	56PF 1608 50V 5% R/TP NP0
		C1029	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C105	0CC821CK41A	820PF 1608 50V 5% R/TP NP0
		C1055	0CC471CK41A	470PF 1608 50V 5% R/TP NP0
		C118	0CC470CK41A	47PF 1608 50V 5% R/TP NP0
		C140	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C142	0CC561CK41A	560PF 1608 50V 5% NP0 R/TP
		C144	0CC221CK41A	220PF 1608 50V 5% R/TP NP0
		C211	0CC470CK41A	47PF 1608 50V 5% R/TP NP0
		C356	0CC220CK41A	22PF 1608 50V 5% R/TP NP0
		C361	0CC220CK41A	22PF 1608 50V 5% R/TP NP0
		C395	0CC471CK41A	470PF 1608 50V 5% R/TP NP0
		C611	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C612	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C614	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C615	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0

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		C618	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C619	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C620	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C621	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C622	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C623	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C624	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C626	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C632	0CC180CK41A	18PF 1608 50V 5% R/TP NP0
		C633	0CC180CK41A	18PF 1608 50V 5% R/TP NP0
		C648	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C649	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C650	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C651	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C966	0CC471CK41A	470PF 1608 50V 5% R/TP NP0
		C967	0CC471CK41A	470PF 1608 50V 5% R/TP NP0
		C1008	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C1011	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C1014	0CC560CK41A	56PF 1608 50V 5% R/TP NP0
		C102	0CC220CK41A	22PF 1608 50V 5% R/TP NP0
		C103	0CC220CK41A	22PF 1608 50V 5% R/TP NP0
		C1046	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C1335	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C134	0CC200CK41A	20PF 1608 50V 5% R/TP NP0
		C135	0CC200CK41A	20PF 1608 50V 5% R/TP NP0
		C138	0CC221CK41A	220PF 1608 50V 5% R/TP NP0
		C161	0CC471CK41A	470PF 1608 50V 5% R/TP NP0
		C162	0CC471CK41A	470PF 1608 50V 5% R/TP NP0
		C164	0CC471CK41A	470PF 1608 50V 5% R/TP NP0
		C165	0CC471CK41A	470PF 1608 50V 5% R/TP NP0
		C166	0CC471CK41A	470PF 1608 50V 5% R/TP NP0
		C208	0CC221CK41A	220PF 1608 50V 5% R/TP NP0
		C210	0CC221CK41A	220PF 1608 50V 5% R/TP NP0
		C217	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C307	0CC100CK41A	10PF 1608 50V 5% R/TP NP0
		C366	0CC221CK41A	220PF 1608 50V 5% R/TP NP0
		C367	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C370	0CC331CK41A	330PF 1608 50V 5% R/TP NP0
		C371	0CC151CK41A	150PF 1608 50V 5% NP0 R/TP
		C387	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C613	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C616	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C617	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C634	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C635	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C636	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C639	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C655	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C703	0CC470CK41A	47PF 1608 50V 5% R/TP NP0
		C711	0CC470CK41A	47PF 1608 50V 5% R/TP NP0
		C837	0CC471CK41A	470PF 1608 50V 5% R/TP NP0
		C838	0CC471CK41A	470PF 1608 50V 5% R/TP NP0
		C839	0CC471CK41A	470PF 1608 50V 5% R/TP NP0
		C841	0CC471CK41A	470PF 1608 50V 5% R/TP NP0
		C925	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C927	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C1070	0CE108EJK18	"1000UF KMG,RD 35V 20%,-20%"
		C1077	0CE108EJK18	"1000UF KMG,RD 35V 20%,-20%"
		CC111	0CE477EK618	470UF KMG 50V 20% FL TP 5
		CC116	0CE477EK618	470UF KMG 50V 20% FL TP 5
		C1006	0CE476WH6DC	47UF MVK 25V 20% SMD R/TP(S
		C1007	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C1013	0CE476WH6DC	47UF MVK 25V 20% SMD R/TP(S
		C1022	0CE476WH6DC	47UF MVK 25V 20% SMD R/TP(S
		C1025	0CE476WH6DC	47UF MVK 25V 20% SMD R/TP(S
		C1026	0CE335WK6D8	"3.3UF MVK,RC 50V 20% SMD TA"
		C1034	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C104	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C1056	0CE335WK6D8	"3.3UF MVK,RC 50V 20% SMD TA"
		C1058	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1059	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C1060	0CH8106J691	10UF 35V 20% 105STD (CYL) R
		C1061	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C1078	0CE475WK6DC	"4.7UF MVK,RC 50V 20% SMD TA"

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C1079	0CE475WK6DC	"4.7UF MVK,RC 50V 20% SMD TA"
		C108	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C1095	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1097	0CE476WH6DC	47UF MVK 25V 20% SMD R/TP(S
		C1103	0CE476WH6DC	47UF MVK 25V 20% SMD R/TP(S
		C1104	0CE476WH6DC	47UF MVK 25V 20% SMD R/TP(S
		C1107	0CE476WH6DC	47UF MVK 25V 20% SMD R/TP(S
		C1110	0CH8106J691	10UF 35V 20% 105STD (CYL) R
		C1122	0CE476WH6DC	47UF MVK 25V 20% SMD R/TP(S
		C1132	0CE105WK6DC	1UF MVK 50V 20% R/TP(SMD) S
		C1307	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C131	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C133	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1338	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C143	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C147	0CE105WK6DC	1UF MVK 50V 20% R/TP(SMD) S
		C150	0CE105WK6DC	1UF MVK 50V 20% R/TP(SMD) S
		C152	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C209	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C303	0CE476WH6DC	47UF MVK 25V 20% SMD R/TP(S
		C305	0CH8106J691	10UF 35V 20% 105STD (CYL) R
		C321	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C324	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C327	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C338	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C340	0CE476WH6DC	47UF MVK 25V 20% SMD R/TP(S
		C347	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C362	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C372	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C378	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C382	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C386	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C389	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C396	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C397	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C398	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C400	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C403	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C460	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C486	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C488	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C528	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C530	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C556	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C601	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C625	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C627	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C629	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C630	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C646	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C654	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C657	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C701	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C702	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C705	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C710	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C712	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C713	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C716	0CE476WH6DC	47UF MVK 25V 20% SMD R/TP(S
		C718	0CE476WH6DC	47UF MVK 25V 20% SMD R/TP(S
		C720	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C800	0CE105WK6DC	1UF MVK 50V 20% R/TP(SMD) S
		C804	0CE227SF6DC	220UF MVG 16V 20% R/TP(SMD)
		C805	0CE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C806	0CE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C808	0CE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C809	0CE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C813	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C814	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C822	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C824	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C901	0CE476WH6DC	47UF MVK 25V 20% SMD R/TP(S
		C902	0CE476WH6DC	47UF MVK 25V 20% SMD R/TP(S
		C906	0CE476WH6DC	47UF MVK 25V 20% SMD R/TP(S

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C910	0CE476WH6DC	47UF MVK 25V 20% SMD R/TP(S
		C911	0CE476WH6DC	47UF MVK 25V 20% SMD R/TP(S
		C912	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C930	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C935	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C943	0CE476SK6D8	"47UF MVG,MC 50V 20% SMD TAP"
		C959	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C960	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		CC103	0CE476WH6DC	47UF MVK 25V 20% SMD R/TP(S
		CC104	0CE476WH6DC	47UF MVK 25V 20% SMD R/TP(S
		CC105	0CE476WH6DC	47UF MVK 25V 20% SMD R/TP(S
		CC112	0CE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		CC113	0CE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		CC117	0CE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		CC118	0CE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		CC119	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		CC126	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		CC127	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		CC128	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		CC139	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		CC143	0CE476WH6DC	47UF MVK 25V 20% SMD R/TP(S
		CC144	0CE476WH6DC	47UF MVK 25V 20% SMD R/TP(S
		CC145	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		CC161	0CE476WH6DC	47UF MVK 25V 20% SMD R/TP(S
		CC163	0CE476WH6DC	47UF MVK 25V 20% SMD R/TP(S
		CC166	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		CC169	0CE476WH6DC	47UF MVK 25V 20% SMD R/TP(S
		CC171	0CE476WH6DC	47UF MVK 25V 20% SMD R/TP(S
		CC173	0CE476WH6DC	47UF MVK 25V 20% SMD R/TP(S
		C1084	0CF4741L438	0.47UF D 63V 5% TP 5 M/PE N
		C1085	0CF4741L438	0.47UF D 63V 5% TP 5 M/PE N
		DIODEs		
		D200	0DRSE00038A	SDC15 TVS DIODE ARRAY SEMTE
		D201	0DRSE00038A	SDC15 TVS DIODE ARRAY SEMTE
		D100	0DD184009AA	KDS184 TP KEC - 85V - - - 3
		D101	0DS181009AA	KDS181 TP KEC SOT-23 80V
		D600	0DD184009AA	KDS184 TP KEC - 85V - - - 3
		IC102	0DD184009AA	KDS184 TP KEC - 85V - - - 3
		ZD1000	0DZRM00248A	RLZ8.2B-TE11 ROHM R/TP LLDS
		IC		
		IC109	0ICTMMI057A	M37151EFFP MITSUBISHI 42P S
		IC1100	0ICTMLG019A	"LGDT3303 LG IC 100P,TQFP TR"
		IC400	0ICTMLG009C	LGDT1102C HD2.3 LG IC SBGA-
		IC505	0ICTMLG013A	LGDT1901A LG IC 24P SSOP TR
		IC902	0ICTMLG018B	LGDP4411 IEP2 LG IC 208P LQ
		IC1002	0ILNR00015A	"NSP-2100A,LF NEOFIDELITY TQ"
		IC105	0IMMR00133A	S29JL032H70TFI310 SPANSION
		IC106	0IMMR00133A	S29JL032H70TFI310 SPANSION
		IC107	0IMMRHY001L	"HY57V641620ETP-H,LF HYNIX 5"
		IC108	0IMMRHY001L	"HY57V641620ETP-H,LF HYNIX 5"
		IC111	0IMCRAL006A	"AT24C16AN-10SU-2.7,LF ATMEL"
		IC303	0IMMR00080A	HY57V161610ETP-6 HYNIX 50PI
		IC500	0IMMR00141A	HY57V641620ETP-6 HYNIX 54PI
		IC501	0IMMR00141A	HY57V641620ETP-6 HYNIX 54PI
		IC502	0IMMR00141A	HY57V641620ETP-6 HYNIX 54PI
		IC503	0IMMR00141A	HY57V641620ETP-6 HYNIX 54PI
		IC602	0IMMRAL014B	AT24C02N-10SI-2.7 ATMEL 8P
		IC100	0IMCRSS016A	S3C44BOX01-EDRO SAMSUNG ELE
		IC1003	0IMCRTI028C	"TAS5122DCARG4,LF TEXAS INS"
		IC1004	0IMCRMN027D	MSP4440K MICRONAS 80P PQFP
		IC201	0IMCRPH026B	PA9516APW PHILIPS 16P TSSOP
		IC202	0IMCRAL021A	AT24C512W-10SU-2.7 ATMEL 8P
		IC203	0IMCRXL004A	"XC95288XL-10TQG144C,LF XIL"
		IC504	0IMCRCY001A	CY2305SXC-1HT CYPRESS SOIC
		IC903	0IMCRTH002A	THC63LVD103 THINE ELECTRONI
		IC1101	0IPRP00538A	FSA1156P6X-NL FAIRCHILD 6P/
		IC200	0IPRP00009A	ICL3232CBNZ INTERSIL 16P/SO
		IC300	0IPRPFA015B	"FMS6400CS1X,LF FAIRCHILD SO"
		IC302	0IPRPNE008A	"UPD64011BGM-8ED-A NEC 160,L"
		IC304	0IPRPFA016A	FMS6407MTC20X-NL(PB-FREE) F

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		IC306	0IPRPM3002D	"MST9883C-LF-110 MSTAR 80P,L"
		IC507	0IPRP00668A	"IDT2309A-1DCG IDT 16P,SOIC"
		IC600	0IPRPS5005A	SII9011CLU(PB FREE) SILICON
		IC701	0ICB533100A	CS5331A-KSR 8SOIC TP ADC -
		IC704	0ICB841500B	CS8415A-CZR 28P TSSOP R/TP
		IC1000	0IMCRSH001A	"PQ05DZ1U SHARP 5, SMD TYPE"
		IC1001	0IMCRSH001A	"PQ05DZ1U SHARP 5, SMD TYPE"
		IC1005	0IMCRSJ001A	SC1565IST-1.8 SEMTECH 3P SO
		IC1006	0IMCRSJ001A	SC1565IST-1.8 SEMTECH 3P SO
		IC1007	0IPMGA0010A	AZ1117H-3.3 AAC SOT-223 3P
		IC1008	0IMCRFA010A	"KA7809R, FAIRCHILD 2P D-PAK"
		IC1009	0IPMGA0010A	AZ1117H-3.3 AAC SOT-223 3P
		IC101	0IKE702900G	KIA7029AF SOT-89 TP 2.9V VO
		IC110	0IKE704200J	KIA7042AF SOT-89 TP 4.2V VO
		IC301	0IPMGSG018C	LD1086DT15TR SGS-THOMSON 2P
		IC305	0IPMGA0010A	AZ1117H-3.3 AAC SOT-223 3P
		IC401	0IMCRSJ001A	SC1565IST-1.8 SEMTECH 3P SO
		IC603	0IMCRSJ001A	SC1565IST-1.8 SEMTECH 3P SO
		IC703	0IPMGKE032A	KIA78R09F KEC 5PIN DPAK R/T
		IC802	0IMCRSJ001B	SC1565IST-2.5TR 2.5V 1.5A S
		IC803	0IMCRSH001A	"PQ05DZ1U SHARP 5, SMD TYPE"
		IC900	0IMCRSJ001A	SC1565IST-1.8 SEMTECH 3P SO
		IC906	0IPMGA0010A	AZ1117H-3.3 AAC SOT-223 3P
		IC103	0IPH741400E	74HC14D 14SOP TP SHITTER TR
		IC700	0IMCRFA013A	74LCX244MTC FAIRCHILD 20P T
		IC702	0ISTL00029A	"MC33078DR2G,LF ON SEMI 8P,S"
COIL & CORE & INDUCTOR				
		L1013	6140VB0004B	26UH 1UEWPHY 22.5TURN YL-9N
		L1014	6140VB0004B	26UH 1UEWPHY 22.5TURN YL-9N
		L1015	6140VB0004B	26UH 1UEWPHY 22.5TURN YL-9N
		L1025	6140VB0032A	DBF-1015A DONGBANG DIGITECH
		L1026	6140VB0032A	DBF-1015A DONGBANG DIGITECH
		L1027	6140VB0032A	DBF-1015A DONGBANG DIGITECH
		L1028	6140VB0032A	DBF-1015A DONGBANG DIGITECH
		L802	6140VB0004B	26UH 1UEWPHY 22.5TURN YL-9N
		L803	6140VB0004B	26UH 1UEWPHY 22.5TURN YL-9N
		L1000	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L1005	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L1010	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L1034	6210TCE001S	HU-1M2012-121 CERATECH 2012
		L1035	6210TCE001S	HU-1M2012-121 CERATECH 2012
		L1036	6210TCE001S	HU-1M2012-121 CERATECH 2012
		L1037	6210TCE001S	HU-1M2012-121 CERATECH 2012
		L104	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L105	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L107	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L108	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L109	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L302	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L303	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L304	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L305	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L306	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L403	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L504	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L607	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L906	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L910	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L911	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		F804	6200QJ3001A	"FILTER,EMI REEL/TAPING BMS4"
		F805	6200QJ3001A	"FILTER,EMI REEL/TAPING BMS4"
		F806	6200QJ3001A	"FILTER,EMI REEL/TAPING BMS4"
		F807	6200QJ3001A	"FILTER,EMI REEL/TAPING BMS4"
		F808	6200QJ3001A	"FILTER,EMI REEL/TAPING BMS4"
		F809	6200QJ3001A	"FILTER,EMI REEL/TAPING BMS4"
		F810	6200QJ3001A	"FILTER,EMI REEL/TAPING BMS4"
		F811	6200QJ3001A	"FILTER,EMI REEL/TAPING BMS4"
		F812	6200QJ3001A	"FILTER,EMI REEL/TAPING BMS4"
		F813	6200QJ3001A	"FILTER,EMI REEL/TAPING BMS4"
		F814	6200QJ3001A	"FILTER,EMI REEL/TAPING BMS4"
		F815	6200QJ3001A	"FILTER,EMI REEL/TAPING BMS4"
		F816	6200QJ3001A	"FILTER,EMI REEL/TAPING BMS4"

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		L1001	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L1002	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L1003	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L1004	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L1006	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L1007	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L1011	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L1018	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L1021	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L1022	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L1023	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L1024	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L1032	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L1033	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L106	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L1104	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L200	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L201	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L311	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L316	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L317	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L318	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L319	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L400	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L401	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L402	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L503	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L600	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L601	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L602	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L603	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L604	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L606	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L900	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L901	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L902	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L903	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L904	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L905	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		R800	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		R801	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		R803	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		R804	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		L1029	0LCML00020D	MLI-201212-220K 22UH MAG LA
		L103	0LC4732101A	4.7UH 10% 3216 R/TC FI-B321
		L301	0LC3332101A	33UH 10% 3216 R/TC FI-D3216
		L700	0LCML00020B	MLI-201209-6R8K 6.8UH MAG
		L102	0LC3332101A	33UH 10% 3216 R/TC FI-D3216
		L1030	0LCML00020D	MLI-201212-220K 22UH MAG LA
		L1031	0LCML00020D	MLI-201212-220K 22UH MAG LA
		L1101	0LCML00020B	MLI-201209-6R8K 6.8UH MAG
		L1103	0LCML00020B	MLI-201209-6R8K 6.8UH MAG
		L300	0LCML00020B	MLI-201209-6R8K 6.8UH MAG
		L312	0LC1532101A	15UH 10% 3216 R/TC FI-C3216
		L313	0LCML00019B	SMI-322522-390K 39U MAG LAY
		L701	0LCML00020B	MLI-201209-6R8K 6.8UH MAG
		L702	0LCML00020C	MLI-201212-100K 10UH MAG LA
TRANSISTOR				
		Q603	0TR102009AJ	KRC102S KEC REEL TAPING SOT
		Q1000	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q1001	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q1002	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q1003	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q1004	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1005	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1006	0TR102009AM	KRA102S KEC REEL TAPING SOT
		Q1008	0TR830009BA	BSS83 TP PHILIPS NON N-CHAN
		Q101	0TR102009AJ	KRC102S KEC REEL TAPING SOT
		Q102	0TR102009AJ	KRC102S KEC REEL TAPING SOT
		Q107	0TR830009BA	BSS83 TP PHILIPS NON N-CHAN
		Q1100	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1101	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		Q300	0TR102009AJ	KRC102S KEC REEL TAPING SOT
		Q301	0TR102009AJ	KRC102S KEC REEL TAPING SOT
		Q302	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q303	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q304	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q305	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q600	0TR830009BA	BSS83 TP PHILIPS NON N-CHAN
		Q601	0TR830009BA	BSS83 TP PHILIPS NON N-CHAN
		Q602	0TR830009BA	BSS83 TP PHILIPS NON N-CHAN
		Q901	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		IC904	0TF492509AA	SI4925DY TP TEMIC 30V 6.1A
		RESISTORs		
		AR100	0RRZVTA001C	4.7K OHM 1 / 16 W 1608 5% R
		AR1100	0RRZVTA001C	4.7K OHM 1 / 16 W 1608 5% R
		AR1101	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/T
		AR1102	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/T
		AR300	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/T
		AR301	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/T
		AR302	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/T
		AR303	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/T
		AR304	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/T
		AR305	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/T
		AR306	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/T
		AR307	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/T
		AR308	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/T
		AR309	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/T
		AR600	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/T
		AR601	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/T
		AR602	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/T
		AR603	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/T
		AR604	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/T
		AR605	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/T
		AR900	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/T
		AR901	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/T
		AR902	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/T
		AR903	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/T
		AR904	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/T
		AR905	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/T
		AR906	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/T
		AR907	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/T
		AR908	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/T
		AR909	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/T
		AR910	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/T
		AR911	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/T
		AR912	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/T
		R10	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R100	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R1000	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R1001	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1002	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R1003	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R1005	0RJ3301D677	3.3K OHM 1/10 W 5% 1608 R/T
		R1007	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R10076	0RJ2001D677	2K OHM 1/10 W 5% 1608 R/TP
		R10077	0RJ2001D677	2K OHM 1/10 W 5% 1608 R/TP
		R10078	0RJ4702D677	47000 OHM 1/10 W 5% 1608 R/
		R10079	0RJ4702D677	47000 OHM 1/10 W 5% 1608 R/
		R1009	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1010	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R1018	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R1020	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R1022	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1023	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R103	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R1031	0RJ0331D677	3.3 OHM 1/10 W 5% 1608 R/TP
		R1039	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R104	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R1045	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R1046	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R1055	0RJ0101D677	1 OHM 1/10 W 5% 1608 R/TP
		R1059	0RJ0101D677	1 OHM 1/10 W 5% 1608 R/TP
		R106	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R1060	0RJ0101D677	1 OHM 1/10 W 5% 1608 R/TP
		R1062	0RJ0101D677	1 OHM 1/10 W 5% 1608 R/TP
		R1063	0RJ0101D677	1 OHM 1/10 W 5% 1608 R/TP
		R1066	0RJ0331D677	3.3 OHM 1/10 W 5% 1608 R/TP
		R107	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R108	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R1087	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R1088	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R1089	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R109	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R1090	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R1093	0RJ0101D677	1 OHM 1/10 W 5% 1608 R/TP
		R1094	0RJ0101D677	1 OHM 1/10 W 5% 1608 R/TP
		R1095	0RJ0101D677	1 OHM 1/10 W 5% 1608 R/TP
		R1096	0RJ0101D677	1 OHM 1/10 W 5% 1608 R/TP
		R1097	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R11	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R110	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R1102	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1104	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1105	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R111	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R113	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R114	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R115	0RJ6800D677	680 OHM 1/10 W 5% 1608 R/TP
		R1151	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R1156	0RJ3001D677	3K OHM 1/10 W 5% 1608 R/TP
		R1158	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R1166	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1167	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R117	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R1174	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R1175	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R12	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R13	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R134	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R14	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R15	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R150	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R152	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R153	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R154	0RJ3901D677	3.9K OHM 1/10 W 5% 1608 R/T
		R155	0RJ3901D677	3.9K OHM 1/10 W 5% 1608 R/T
		R156	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R159	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R16	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R160	0RJ0472D677	47 OHM 1/10 W 5% 1608 R/TP
		R170	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R177	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R182	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R188	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R190	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R192	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R193	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R194	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R196	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R197	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R198	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R225	0RJ3301D677	3.3K OHM 1/10 W 5% 1608 R/T
		R226	0RJ3301D677	3.3K OHM 1/10 W 5% 1608 R/T
		R229	0RJ2201D677	2200 OHM 1/10 W 5% 1608 R/T
		R230	0RJ2201D677	2200 OHM 1/10 W 5% 1608 R/T
		R231	0RJ2201D677	2200 OHM 1/10 W 5% 1608 R/T
		R249	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R250	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R251	0RJ1202D677	12K OHM 1/10 W 5% 1608 R/TP
		R253	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R265	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R268	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R273	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R274	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R286	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R306	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R307	0RJ2202D677	22K OHM 1/10 W 5% 1608 R/TP

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		R308	0RJ2202D677	22K OHM 1/10 W 5% 1608 R/TP
		R309	0RJ2202D677	22K OHM 1/10 W 5% 1608 R/TP
		R310	0RJ2202D677	22K OHM 1/10 W 5% 1608 R/TP
		R311	0RJ2202D677	22K OHM 1/10 W 5% 1608 R/TP
		R312	0RJ2202D677	22K OHM 1/10 W 5% 1608 R/TP
		R313	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R314	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R315	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R316	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R317	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R318	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R319	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R320	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R324	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R325	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R329	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R333	0RJ2202D677	22K OHM 1/10 W 5% 1608 R/TP
		R334	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R335	0RJ2202D677	22K OHM 1/10 W 5% 1608 R/TP
		R336	0RJ2202D677	22K OHM 1/10 W 5% 1608 R/TP
		R358	0RJ3301D677	3.3K OHM 1/10 W 5% 1608 R/T
		R374	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R400	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R401	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R402	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R403	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R404	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R405	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R407	0RJ0272D677	27 OHM 1/10 W 5% 1608 R/TP
		R408	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R409	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R410	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R411	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R414	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R415	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R416	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R417	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R418	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R423	0RJ1820D477	182 OHM 1/10 W 1% 1608 R/TP
		R424	0RJ1820D477	182 OHM 1/10 W 1% 1608 R/TP
		R431	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R437	0RJ3301D677	3.3K OHM 1/10 W 5% 1608 R/T
		R438	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R441	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R442	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R443	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R507	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R508	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R515	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R564	0RJ4702D677	47000 OHM 1/10 W 5% 1608 R/
		R609	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R614	0RJ1004D677	1000000 OHM 1/10 W 5% 1608
		R626	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R627	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R628	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R647	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R654	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R656	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R661	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R713	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R717	0RJ0512D677	51 OHM 1/10 W 5% 1608 R/TP
		R9	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R914	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R915	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R916	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R917	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R919	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R927	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R929	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R944	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R945	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R946	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R948	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R950	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP

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		R965	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R973	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R985	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R986	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R987	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R989	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R990	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		RB100	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		RB103	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		RB105	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		RB108	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		RB109	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		RB110	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		RB117	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		RB123	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		RB131	0RJ4702D677	47000 OHM 1/10 W 5% 1608 R/
		RB134	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		RB137	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		RB143	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		RB203	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		RB204	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		AR500	0RJ0332C605	33 OHM 1/16 W 5% 1608 ARRAY
		AR501	0RJ0332C605	33 OHM 1/16 W 5% 1608 ARRAY
		AR502	0RJ0332C605	33 OHM 1/16 W 5% 1608 ARRAY
		AR503	0RJ0332C605	33 OHM 1/16 W 5% 1608 ARRAY
		AR504	0RJ0332C605	33 OHM 1/16 W 5% 1608 ARRAY
		AR505	0RJ0332C605	33 OHM 1/16 W 5% 1608 ARRAY
		AR506	0RJ0332C605	33 OHM 1/16 W 5% 1608 ARRAY
		AR507	0RJ0332C605	33 OHM 1/16 W 5% 1608 ARRAY
		AR508	0RJ0332C605	33 OHM 1/16 W 5% 1608 ARRAY
		AR509	0RJ0332C605	33 OHM 1/16 W 5% 1608 ARRAY
		AR510	0RJ0332C605	33 OHM 1/16 W 5% 1608 ARRAY
		AR511	0RJ0332C605	33 OHM 1/16 W 5% 1608 ARRAY
		AR512	0RJ0332C605	33 OHM 1/16 W 5% 1608 ARRAY
		AR513	0RJ0332C605	33 OHM 1/16 W 5% 1608 ARRAY
		AR514	0RJ0332C605	33 OHM 1/16 W 5% 1608 ARRAY
		AR515	0RJ0332C605	33 OHM 1/16 W 5% 1608 ARRAY
		R1	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R10000	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R10001	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R101	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R1011	0RH0432D622	43 OHM 1 / 10 W 2012 5.00%
		R1012	0RH0432D622	43 OHM 1 / 10 W 2012 5.00%
		R1013	0RJ0102D677	10 OHM 1/10 W 5% 1608 R/TP
		R1015	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R1016	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R1017	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R1019	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R102	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R1021	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R1024	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R1025	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R1026	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R1027	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1029	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R1030	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R1033	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1034	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1035	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1036	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1037	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R1038	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R1040	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R1041	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R1042	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R1047	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R1049	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R105	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R1050	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R1053	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R1054	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R1056	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R1057	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R1058	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R1061	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R1064	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R1065	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R1067	0RJ0101D677	1 OHM 1/10 W 5% 1608 R/TP
		R1068	0RJ0101D677	1 OHM 1/10 W 5% 1608 R/TP
		R1069	0RJ0101D677	1 OHM 1/10 W 5% 1608 R/TP
		R1070	0RJ0101D677	1 OHM 1/10 W 5% 1608 R/TP
		R1071	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R1072	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R1073	0RJ2201D677	2200 OHM 1/10 W 5% 1608 R/T
		R1078	0RJ2201D677	2200 OHM 1/10 W 5% 1608 R/T
		R1079	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1080	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1081	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1082	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1083	0RJ4703D677	470K OHM 1/10 W 5% 1608 R/T
		R1084	0RJ4703D677	470K OHM 1/10 W 5% 1608 R/T
		R1085	0RJ2001D677	2K OHM 1/10 W 5% 1608 R/TP
		R1086	0RJ2001D677	2K OHM 1/10 W 5% 1608 R/TP
		R1091	0RJ1501D677	1.5K OHM 1/10 W 5% 1608 R/T
		R1092	0RJ1501D677	1.5K OHM 1/10 W 5% 1608 R/T
		R1100	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1103	0RJ0822D677	82 OHM 1/10 W 5% 1608 R/TP
		R1106	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R1107	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R1108	0RJ0102D677	10 OHM 1/10 W 5% 1608 R/TP
		R1109	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1110	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R1111	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1112	0RJ1202D677	12K OHM 1/10 W 5% 1608 R/TP
		R1113	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R1115	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R1116	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R1157	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R1159	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R116	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R1161	0RJ0512D677	51 OHM 1/10 W 5% 1608 R/TP
		R1162	0RJ0512D677	51 OHM 1/10 W 5% 1608 R/TP
		R1163	0RJ0512D677	51 OHM 1/10 W 5% 1608 R/TP
		R1164	0RJ0512D677	51 OHM 1/10 W 5% 1608 R/TP
		R1168	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R1169	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R1170	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1172	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1176	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1177	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1179	0RJ3300D677	330 OHM 1/10 W 5% 1608 R/TP
		R118	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R1180	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R1181	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R119	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R120	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R121	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R122	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R123	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R124	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R126	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R130	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R132	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R133	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R135	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R136	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R138	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1444	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R145	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R147	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R148	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R151	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R157	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R161	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R162	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R163	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R164	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R165	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R166	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R168	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R169	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R172	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R174	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R175	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R176	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R178	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R179	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R180	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R181	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R183	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R184	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R185	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R186	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R187	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R189	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R191	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R195	0RJ1004D677	1000000 OHM 1/10 W 5% 1608
		R2	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R200	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R201	0RJ2201D677	2200 OHM 1/10 W 5% 1608 R/T
		R202	0RJ6201D677	6.2K OHM 1/10 W 5% 1608 R/T
		R203	0RJ6201D677	6.2K OHM 1/10 W 5% 1608 R/T
		R204	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R205	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R206	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R207	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R208	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R209	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R210	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R211	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R212	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R213	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R214	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R215	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R216	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R217	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R218	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R219	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R220	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R221	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R222	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R223	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R224	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R234	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R235	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R236	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R237	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R238	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R239	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R240	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R242	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R243	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R245	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R246	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R247	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R248	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R252	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R256	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R258	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R259	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R260	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R267	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R269	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R270	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R271	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R272	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R276	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R277	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R278	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R279	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R280	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R281	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R282	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R287	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R288	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R289	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R291	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R292	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R293	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R294	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R295	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R296	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R298	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R3	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R300	0RJ1500D677	150 OHM 1/10 W 5% 1608 R/TP
		R301	0RJ1500D677	150 OHM 1/10 W 5% 1608 R/TP
		R302	0RH0912D622	91 OHM 1 / 10 W 2012 5.00%
		R303	0RH0912D622	91 OHM 1 / 10 W 2012 5.00%
		R304	0RJ2201D677	2200 OHM 1/10 W 5% 1608 R/T
		R305	0RJ2201D677	2200 OHM 1/10 W 5% 1608 R/T
		R321	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R322	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R323	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R326	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R327	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R328	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R330	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R331	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R332	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R337	0RJ0102D677	10 OHM 1/10 W 5% 1608 R/TP
		R338	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R339	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R340	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R341	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R342	0RH3600D622	360 OHM 1 / 10 W 2012 5.00%
		R343	0RH3600D622	360 OHM 1 / 10 W 2012 5.00%
		R344	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R345	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R348	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R349	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R350	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R351	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R352	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R356	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R357	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R359	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R360	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R361	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R362	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R363	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R364	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R365	0RJ2701D477	2.7K OHM 1/10 W 1% 1608 R/T
		R366	0RJ0331D677	3.3 OHM 1/10 W 5% 1608 R/TP
		R367	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R368	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R369	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R370	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R371	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R372	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R375	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R379	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R4	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R412	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R419	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R420	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R421	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R426	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R427	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R428	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R429	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R430	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R432	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R433	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R434	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R435	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R436	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R439	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R445	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R446	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R5	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R500	0RJ0272D677	27 OHM 1/10 W 5% 1608 R/TP
		R501	0RJ0272D677	27 OHM 1/10 W 5% 1608 R/TP
		R502	0RJ0272D677	27 OHM 1/10 W 5% 1608 R/TP
		R503	0RJ0272D677	27 OHM 1/10 W 5% 1608 R/TP
		R504	0RJ6202D677	62K OHM 1/10 W 5% 1608 R/TP
		R505	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R506	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R509	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R511	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R513	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R516	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R517	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R518	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R519	0RJ0272D677	27 OHM 1/10 W 5% 1608 R/TP
		R521	0RJ0272D677	27 OHM 1/10 W 5% 1608 R/TP
		R522	0RJ0272D677	27 OHM 1/10 W 5% 1608 R/TP
		R523	0RJ0272D677	27 OHM 1/10 W 5% 1608 R/TP
		R525	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R527	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R534	0RJ2002D677	20000 OHM 1/10 W 5% 1608 R/
		R535	0RJ8201D677	8.2K OHM 1/10 W 5% 1608 R/T
		R551	0RJ0221D677	2.2 OHM 1/10 W 5% 1608 R/TP
		R554	0RJ0221D677	2.2 OHM 1/10 W 5% 1608 R/TP
		R559	0RJ0562D677	56 OHM 1/10 W 5% 1608 R/TP
		R560	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R561	0RJ4702D677	47000 OHM 1/10 W 5% 1608 R/
		R563	0RJ4702D677	47000 OHM 1/10 W 5% 1608 R/
		R566	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R6	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R601	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R603	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R605	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R606	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R607	0RJ0102D677	10 OHM 1/10 W 5% 1608 R/TP
		R608	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R612	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R613	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R615	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R616	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R617	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R619	0RJ4702D677	47000 OHM 1/10 W 5% 1608 R/
		R620	0RJ4702D677	47000 OHM 1/10 W 5% 1608 R/
		R621	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R622	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R624	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R625	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R629	0RJ2001D677	2K OHM 1/10 W 5% 1608 R/TP
		R630	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R633	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R636	0RJ0331D677	3.3 OHM 1/10 W 5% 1608 R/TP
		R637	0RJ0331D677	3.3 OHM 1/10 W 5% 1608 R/TP
		R638	0RJ0331D677	3.3 OHM 1/10 W 5% 1608 R/TP
		R639	0RJ0331D677	3.3 OHM 1/10 W 5% 1608 R/TP
		R640	0RJ0331D677	3.3 OHM 1/10 W 5% 1608 R/TP
		R641	0RJ0331D677	3.3 OHM 1/10 W 5% 1608 R/TP
		R642	0RJ0331D677	3.3 OHM 1/10 W 5% 1608 R/TP
		R643	0RJ0331D677	3.3 OHM 1/10 W 5% 1608 R/TP
		R644	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R645	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R646	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R648	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R649	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R650	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R651	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R657	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R658	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R7	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R701	0RJ1500D677	150 OHM 1/10 W 5% 1608 R/TP
		R702	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R703	0RJ6801D677	6800 OHM 1/10 W 5% 1608 R/T

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R704	0RJ2700D677	270 OHM 1/10 W 5% 1608 R/TP
		R705	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R706	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R707	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R708	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R710	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R711	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R712	0RJ4702D677	47000 OHM 1/10 W 5% 1608 R/
		R715	0RJ0512D677	51 OHM 1/10 W 5% 1608 R/TP
		R716	0RJ0512D677	51 OHM 1/10 W 5% 1608 R/TP
		R718	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R719	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R720	0RJ6801D677	6800 OHM 1/10 W 5% 1608 R/T
		R721	0RJ2700D677	270 OHM 1/10 W 5% 1608 R/TP
		R722	0RJ1500D677	150 OHM 1/10 W 5% 1608 R/TP
		R723	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R725	0RJ1201D677	1200 OHM 1/10 W 5% 1608 R/T
		R726	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R727	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R728	0RJ0272D677	27 OHM 1/10 W 5% 1608 R/TP
		R729	0RJ4702D677	47000 OHM 1/10 W 5% 1608 R/
		R730	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R731	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R732	0RJ0102D677	10 OHM 1/10 W 5% 1608 R/TP
		R733	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R8	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R802	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R818	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R835	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R901	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R902	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R903	0RJ3301D677	3.3K OHM 1/10 W 5% 1608 R/T
		R904	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R905	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R906	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R907	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R908	0RJ3301D677	3.3K OHM 1/10 W 5% 1608 R/T
		R910	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R911	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R912	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R913	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R918	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R920	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R921	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R922	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R923	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R925	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R930	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R931	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R932	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R933	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R934	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R935	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R937	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R938	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R939	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R940	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R941	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R942	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R943	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R953	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R958	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R967	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R968	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R972	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R974	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R975	0RJ0102D677	10 OHM 1/10 W 5% 1608 R/TP
		R976	0RJ0102D677	10 OHM 1/10 W 5% 1608 R/TP
		R977	0RJ0102D677	10 OHM 1/10 W 5% 1608 R/TP
		R988	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		RB101	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		RB102	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		RB104	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		RB106	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		RB107	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		RB111	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		RB112	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		RB113	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		RB114	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		RB115	0RJ1004D677	1000000 OHM 1/10 W 5% 1608
		RB116	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		RB118	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		RB119	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		RB120	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		RB121	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		RB122	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		RB126	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		RB127	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		RB129	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		RB130	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		RB132	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		RB133	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		RB135	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		RB136	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		RB138	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		RB139	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		RB140	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		RB141	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		RB144	0RJ1004D677	1000000 OHM 1/10 W 5% 1608
		RB146	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		RB201	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		RB202	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		RB205	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		RB900	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		RB901	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		RB902	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		RB903	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		RB904	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		RB905	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		RB906	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		RB907	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		RB908	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		RB909	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		RB910	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		RB911	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		RB922	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		RB923	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		RB924	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		RB925	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		RB926	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		RB927	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		RB928	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		RB929	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		RB930	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		RB931	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		OTHERs		
		D1100	0DL233309AC	SAM2333 TP KWANG GREEN/RED
		D1101	0DL233309AC	SAM2333 TP KWANG GREEN/RED
		D202	0DL233309AC	SAM2333 TP KWANG GREEN/RED
		D203	0DL233309AC	SAM2333 TP KWANG GREEN/RED
		LED802	0DL233309AC	SAM2333 TP KWANG GREEN/RED
		VX500	6204B60001B	VCXO BUBANG 27MHZ +/- 100 P
		X1100	6204B47985K	BMS-873R BUBANG 25MHZ +/- 5
		X100	6212AB2015E	HC-49/SM BUBANG 10.0MHZ +/-
		X1000	6202VDT002H	SX-1 SUNNY 18.432000MHZ +/-
		X102	6202VDT002D	SX-1SMD SUNNY RADIAL 8.0MHZ
		X300	6212AB2806A	SX-1 SUNNY 24.576MHZ +/- 50
		X600	6212AB2845A	ABLS-27.000MHZ-16-B-4Y-F-T
		SW101	140-313A	TACT 2LEAD 100G(TA) LG C&D
		TU1100	6700AN0002C	TDVS-H702P LGIT ATSC/NTSC D
		AV BOARD		
		CAPACITOR		
		C103	0CH5101K416	100PF 50V 5% NP0 2012 R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C105	0CH5101K416	100PF 50V 5% NP0 2012 R/TP
		C107	0CH5220K416	22PF 50V 5% NP0 2012 R/TP
		C108	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C109	0CH5220K416	22PF 50V 5% NP0 2012 R/TP
		C1105	0CH5101K416	100PF 50V 5% NP0 2012 R/TP
		C1106	0CH5101K416	100PF 50V 5% NP0 2012 R/TP
		C1107	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1108	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1109	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1110	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1117	0CH5101K416	100PF 50V 5% NP0 2012 R/TP
		C1120	0CH5101K416	100PF 50V 5% NP0 2012 R/TP
		C1124	0CH5101K416	100PF 50V 5% NP0 2012 R/TP
		C1125	0CH5101K416	100PF 50V 5% NP0 2012 R/TP
		C1127	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1128	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1130	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1132	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1136	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1139	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1142	0CH5101K416	100PF 50V 5% NP0 2012 R/TP
		C1143	0CH5101K416	100PF 50V 5% NP0 2012 R/TP
		C120	0CK105DF64A	1UF 2012 16V 20% F(Y5V) R/T
		C122	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C127	0CH5101K416	100PF 50V 5% NP0 2012 R/TP
		C131	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C144	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C146	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C148	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C155	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C157	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C162	0CH5471K416	470PF 50V 5% NP0 2012 R/TP
		C163	0CH5471K416	470PF 50V 5% NP0 2012 R/TP
		C164	0CH5080K116	8PF 2012 50V 0.5 PF NP0 R/T
		C165	0CH5080K116	8PF 2012 50V 0.5 PF NP0 R/T
		C166	0CH5080K116	8PF 2012 50V 0.5 PF NP0 R/T
		C202	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C205	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C207	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C209	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C210	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C211	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C218	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C219	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C220	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C227	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C228	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C101	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1126	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1137	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1138	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C114	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1140	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1141	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1152	0CH5471K416	470PF 50V 5% NP0 2012 R/TP
		C1158	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C135	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C141	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C142	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C143	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C145	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C147	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C229	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1118	0CH2103K516	10000PF 50V 10% B(Y5P) 2012
		C112	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C113	0CH2472K516	4700PF 50V 10% B(Y5P) 2012
		C1134	0CH2222K516	2200PF 50V 10% B(Y5P) 2012
		C1135	0CH2222K516	2200PF 50V 10% B(Y5P) 2012
		C1144	0CH2222K516	2200PF 50V 10% B(Y5P) 2012
		C1145	0CH2222K516	2200PF 50V 10% B(Y5P) 2012
		C1146	0CH2222K516	2200PF 50V 10% B(Y5P) 2012
		C119	0CH2103K516	10000PF 50V 10% B(Y5P) 2012
		C204	0CH2334F566	0.33UF 16V 10% X7R 2012 R/T
		C212	0CH2103K516	10000PF 50V 10% B(Y5P) 2012

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C213	0CH2103K516	10000PF 50V 10% B(Y5P) 2012
		C214	0CH2103K516	10000PF 50V 10% B(Y5P) 2012
		C221	0CH2103K516	10000PF 50V 10% B(Y5P) 2012
		C222	0CH2103K516	10000PF 50V 10% B(Y5P) 2012
		C223	0CH2103K516	10000PF 50V 10% B(Y5P) 2012
		C102	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C104	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C1103	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C1147	0CH2222K516	2200PF 50V 10% B(Y5P) 2012
		C1148	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C1149	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C115	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C1150	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C1151	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C116	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C117	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C118	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C123	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C128	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C129	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C130	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C132	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C133	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C136	0CH2103K516	10000PF 50V 10% B(Y5P) 2012
		C137	0CH2103K516	10000PF 50V 10% B(Y5P) 2012
		C150	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C151	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C152	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C159	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C160	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C100	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C106	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1100	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C1101	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C1102	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C1104	0CE105WK6DC	1UF MVK 50V 20% R/TP(SMD) S
		C1111	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1112	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C1113	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C1114	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C1115	0CE225WK6DC	"2.2UF MVK,RC 50V 20% SMD TA"
		C1116	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C1119	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C1121	0CE105WK6DC	1UF MVK 50V 20% R/TP(SMD) S
		C1122	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C1123	0CE105WK6DC	1UF MVK 50V 20% R/TP(SMD) S
		C1129	0CE225WK6DC	"2.2UF MVK,RC 50V 20% SMD TA"
		C1131	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C1133	0CE227SF6DC	220UF MVG 16V 20% R/TP(SMD)
		C1153	0CE105WK6DC	1UF MVK 50V 20% R/TP(SMD) S
		C1155	0CE105WK6DC	1UF MVK 50V 20% R/TP(SMD) S
		C1156	0CE225WK6DC	"2.2UF MVK,RC 50V 20% SMD TA"
		C1157	0CE225WK6DC	"2.2UF MVK,RC 50V 20% SMD TA"
		C121	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C124	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C125	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C126	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C134	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C139	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C153	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C156	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C158	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C161	0CE227SF6DC	220UF MVG 16V 20% R/TP(SMD)
		C203	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C206	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C208	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C215	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C216	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C217	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C224	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C225	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C226	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C230	0CE227SF6DC	220UF MVG 16V 20% R/TP(SMD)
		C231	0CE227SF6DC	220UF MVG 16V 20% R/TP(SMD)

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		DIODEs		
		D115	0DD184009AA	KDS184 TP KEC - 85V - - - 3
		D106	0DD184009AA	KDS184 TP KEC - 85V - - - 3
		D100	0DZRM00218A	UDZS8.2B ROHM R/TP SOD323 2
		D101	0DZRM00218A	UDZS8.2B ROHM R/TP SOD323 2
		D102	0DZRM00218A	UDZS8.2B ROHM R/TP SOD323 2
		D103	0DZRM00218A	UDZS8.2B ROHM R/TP SOD323 2
		D104	0DZRM00218A	UDZS8.2B ROHM R/TP SOD323 2
		IC		
		IC100	0IMMRAL014B	AT24C02N-10SI-2.7 ATMEL 8P
		IC101	0IMCRSO025A	CXA2181Q SONY 48P QFP TRAY
		IC103	0ISO206900A	CXA2069Q QFP64 BK I2C BUS A
		IC102	0IPH740800H	"74F08D 14P,SOIC TP QUAD 2-I"
		IC200	0IMCRSH001A	"PQ05DZ1U SHARP 5, SMD TYPE"
		IC201	0IMCRFA010A	"KA7809R, FAIRCHILD 2P D-PAK"
		IC104	0ISTL00024A	"MC14053BDR2G,LF ON SEMI 16P"
		COIL & CORE & INDUCTOR		
		L207	6140VB0004B	26UH 1UEWPHY 22.5TURN YL-9N
		L101	6210VC0005A	BK2125 HS 750 TAIYOYUDEN 2X
		L103	6210VC0006A	FBMH3216 HM501NT TAIYOYUDEN
		L105	6210VC0006A	FBMH3216 HM501NT TAIYOYUDEN
		L108	6210TCE001S	HU-1M2012-121 CERATECH 2012
		L110	6210TCE001S	HU-1M2012-121 CERATECH 2012
		L201	6210VC0006A	FBMH3216 HM501NT TAIYOYUDEN
		L202	6210VC0006A	FBMH3216 HM501NT TAIYOYUDEN
		L203	6210VC0006A	FBMH3216 HM501NT TAIYOYUDEN
		L204	6210VC0006A	FBMH3216 HM501NT TAIYOYUDEN
		L205	6210VC0006A	FBMH3216 HM501NT TAIYOYUDEN
		L206	6210VC0006A	FBMH3216 HM501NT TAIYOYUDEN
		L102	6210VC0006A	FBMH3216 HM501NT TAIYOYUDEN
		L106	6210VC0006A	FBMH3216 HM501NT TAIYOYUDEN
		L107	6210VC0006A	FBMH3216 HM501NT TAIYOYUDEN
		L200	6210VC0006A	FBMH3216 HM501NT TAIYOYUDEN
		L100	0LC2232101A	22UH 10% 3216 R/TC FI-D3216
		L104	0LC2232101A	22UH 10% 3216 R/TC FI-D3216
		TRANSISTOR		
		Q124	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q100	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q101	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q102	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q103	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q104	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q105	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q106	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q107	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q108	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q109	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q110	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q111	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q112	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q113	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q114	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q115	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q117	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q118	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q119	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q120	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q121	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q122	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q123	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q138	0TR102009AJ	KRC102S KEC REEL TAPING SOT
		Q139	0TR102009AJ	KRC102S KEC REEL TAPING SOT
		Q141	0TR102009AJ	KRC102S KEC REEL TAPING SOT
		RESISTORs		
		R126	0RN1002F409	10K OHM 1/6 W 1.00% TA52

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		R1	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R10	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R100	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R108	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R1101	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1103	0RH1502D622	15K OHM 1 / 10 W 2012 5.00%
		R1104	0RH6801D622	6.8K OHM 1 / 10 W 2012 5.00
		R1105	0RH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R1108	0RH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R111	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R1110	0RH1502D622	15K OHM 1 / 10 W 2012 5.00%
		R1111	0RH6801D622	6.8K OHM 1 / 10 W 2012 5.00
		R1113	0RH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R1120	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R1121	0RH1502D622	15K OHM 1 / 10 W 2012 5.00%
		R1122	0RH6801D622	6.8K OHM 1 / 10 W 2012 5.00
		R1128	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R1129	0RH4702D622	47K OHM 1 / 10 W 2012 5.00%
		R1130	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1131	0RH1003D622	100K OHM 1 / 10 W 2012 5.00
		R1133	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R1134	0RH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R1135	0RH1502D622	15K OHM 1 / 10 W 2012 5.00%
		R1136	0RH6801D622	6.8K OHM 1 / 10 W 2012 5.00
		R1137	0RH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R114	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1141	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R1142	0RH1502D622	15K OHM 1 / 10 W 2012 5.00%
		R1143	0RH6801D622	6.8K OHM 1 / 10 W 2012 5.00
		R1144	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1145	0RH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R1147	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R115	0RH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R1150	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R1153	0RH1502D622	15K OHM 1 / 10 W 2012 5.00%
		R1154	0RH6801D622	6.8K OHM 1 / 10 W 2012 5.00
		R1155	0RH3900D622	390 OHM 1 / 10 W 2012 5.00%
		R1156	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R1158	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R116	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1161	0RH3900D622	390 OHM 1 / 10 W 2012 5.00%
		R1162	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1163	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1167	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R117	0RH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R1172	0RH1003D622	100K OHM 1 / 10 W 2012 5.00
		R1175	0RH4702D622	47K OHM 1 / 10 W 2012 5.00%
		R1179	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R1180	0RH0682D622	68 OHM 1 / 10 W 2012 5.00%
		R1185	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R1187	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1189	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R1190	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R1191	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R1192	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R1193	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1195	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R1196	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R12	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R124	0RH1502D622	15K OHM 1 / 10 W 2012 5.00%
		R125	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R127	0RH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R129	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R13	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R137	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R139	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R14	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R149	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R15	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R154	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R157	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R16	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R186	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R19	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D

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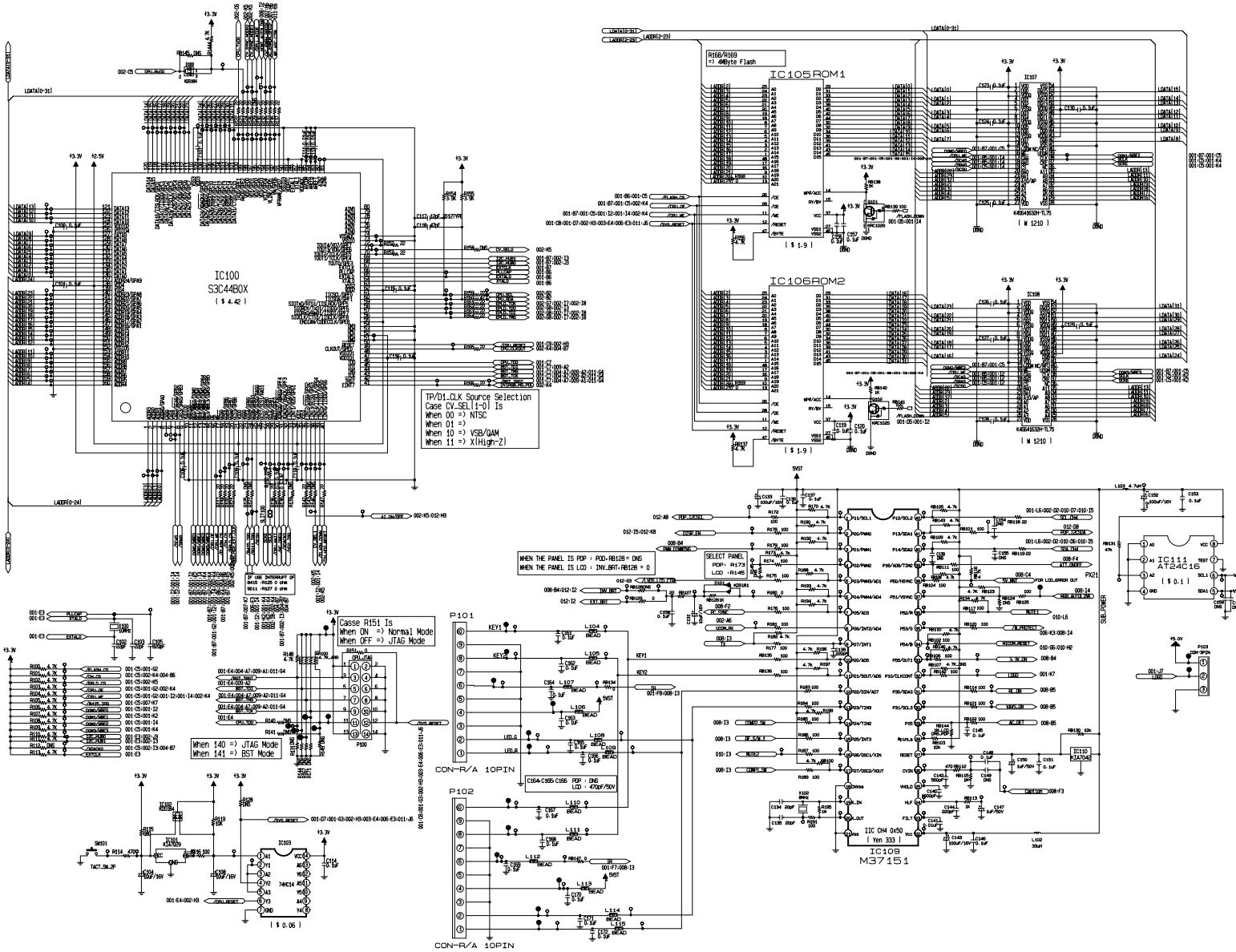
		R192	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R193	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R2	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R4	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R101	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R102	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R103	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R104	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R105	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R106	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R107	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R109	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R11	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R110	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R1100	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R1102	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00
		R1106	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00
		R1107	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00
		R1109	0RH6800D622	680 OHM 1 / 10 W 2012 5.00%
		R1112	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00
		R1114	0RH6800D622	680 OHM 1 / 10 W 2012 5.00%
		R1115	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00
		R1116	0RH3301D622	3.3K OHM 1 / 10 W 2012 5.00
		R1117	0RH1501D622	1.5K OHM 1 / 10 W 2012 5.00
		R1118	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R1119	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R112	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1123	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R1124	0RH1501D622	1.5K OHM 1 / 10 W 2012 5.00
		R1125	0RH7500D622	750 OHM 1 / 10 W 2012 5.00%
		R1126	0RH7500D622	750 OHM 1 / 10 W 2012 5.00%
		R1127	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00
		R113	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1132	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R1138	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00
		R1139	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R1140	0RH5601D622	5.6K OHM 1 / 10 W 2012 5.00
		R1146	0RH5601D622	5.6K OHM 1 / 10 W 2012 5.00
		R1148	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00
		R1149	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R1151	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R1152	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R1157	0RH5601D622	5.6K OHM 1 / 10 W 2012 5.00
		R1159	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00
		R1160	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R1164	0RH5601D622	5.6K OHM 1 / 10 W 2012 5.00
		R1165	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R1166	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R1168	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R1169	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R1170	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R1171	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R1173	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R1174	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R1176	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R1177	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R1178	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R118	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R1181	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R1182	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R1183	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1184	0RH0102D622	10 OHM 1 / 10 W 2012 5.00%
		R119	0RH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R1194	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R120	0RH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R121	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R122	0RH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R123	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R128	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R130	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R131	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R133	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R134	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R135	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%

DATE: 2006. 02. 06.

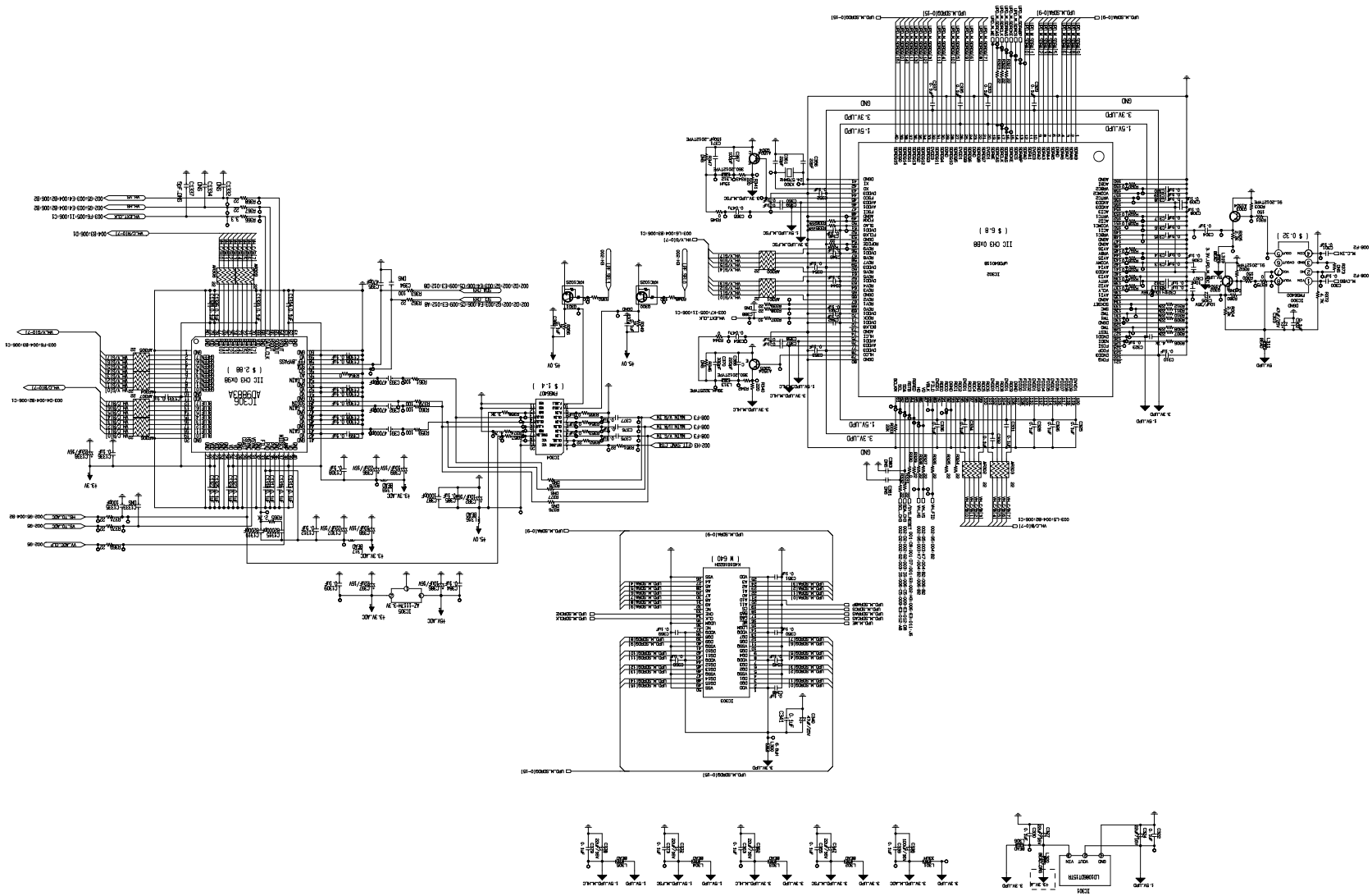
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R136	0RH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R138	0RH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R140	0RH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R141	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R145	0RH0102D622	10 OHM 1 / 10 W 2012 5.00%
		R146	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R148	0RH0102D622	10 OHM 1 / 10 W 2012 5.00%
		R150	0RH1502D622	15K OHM 1 / 10 W 2012 5.00%
		R151	0RH6801D622	6.8K OHM 1 / 10 W 2012 5.00
		R152	0RH0102D622	10 OHM 1 / 10 W 2012 5.00%
		R153	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R155	0RH1502D622	15K OHM 1 / 10 W 2012 5.00%
		R156	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R158	0RH6801D622	6.8K OHM 1 / 10 W 2012 5.00
		R159	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R160	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R161	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R162	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R163	0RH1502D622	15K OHM 1 / 10 W 2012 5.00%
		R164	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R165	0RH6801D622	6.8K OHM 1 / 10 W 2012 5.00
		R166	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R167	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R168	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R169	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R17	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R170	0RH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R171	0RH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R172	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R173	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R18	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R187	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R188	0RH2001D622	2K OHM 1 / 10 W 2012 5.00%
		R189	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R190	0RH2001D622	2K OHM 1 / 10 W 2012 5.00%
		R196	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R197	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R20	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R200	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R5	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R6	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R7	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R8	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R9	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		OTHERs		
		SW200	6634D00010D	TASA-H303P LG INNOTEK 75 OH
		X100	6212AB3004D	CSALF2M69G4ZF01-A3 MURATA 2
		X101	6212AB2015A	HC-49/SM4H BUBANG 4MHZ +/-
		KEY BOARD		
		SW101	140-313A	TACT 2LEAD 100G(TA) LG C&D
		SW102	140-313A	TACT 2LEAD 100G(TA) LG C&D
		SW103	140-313A	TACT 2LEAD 100G(TA) LG C&D
		SW104	140-313A	TACT 2LEAD 100G(TA) LG C&D
		SW105	140-313A	TACT 2LEAD 100G(TA) LG C&D
		SW106	140-313A	TACT 2LEAD 100G(TA) LG C&D
		SW107	140-313A	TACT 2LEAD 100G(TA) LG C&D
		SW108	140-313A	TACT 2LEAD 100G(TA) LG C&D
		R101	0RH1201D622	1.2K OHM 1 / 10 W 2012 5.00
		R102	0RH3301D622	3.3K OHM 1 / 10 W 2012 5.00
		R103	0RH2002D622	20K OHM 1 / 10 W 2012 5.00%
		R104	0RH7501D622	7.5K OHM 1 / 10 W 2012 5.00
		R105	0RH3301D622	3.3K OHM 1 / 10 W 2012 5.00
		R106	0RH1201D622	1.2K OHM 1 / 10 W 2012 5.00
		R107	0RH2002D622	20K OHM 1 / 10 W 2012 5.00%
		R108	0RH7501D622	7.5K OHM 1 / 10 W 2012 5.00
		ZD101	0DZ510009EE	UDZ S 5.1B TP ROHM SOD323 -
		ZD102	0DZ510009EE	UDZ S 5.1B TP ROHM SOD323 -

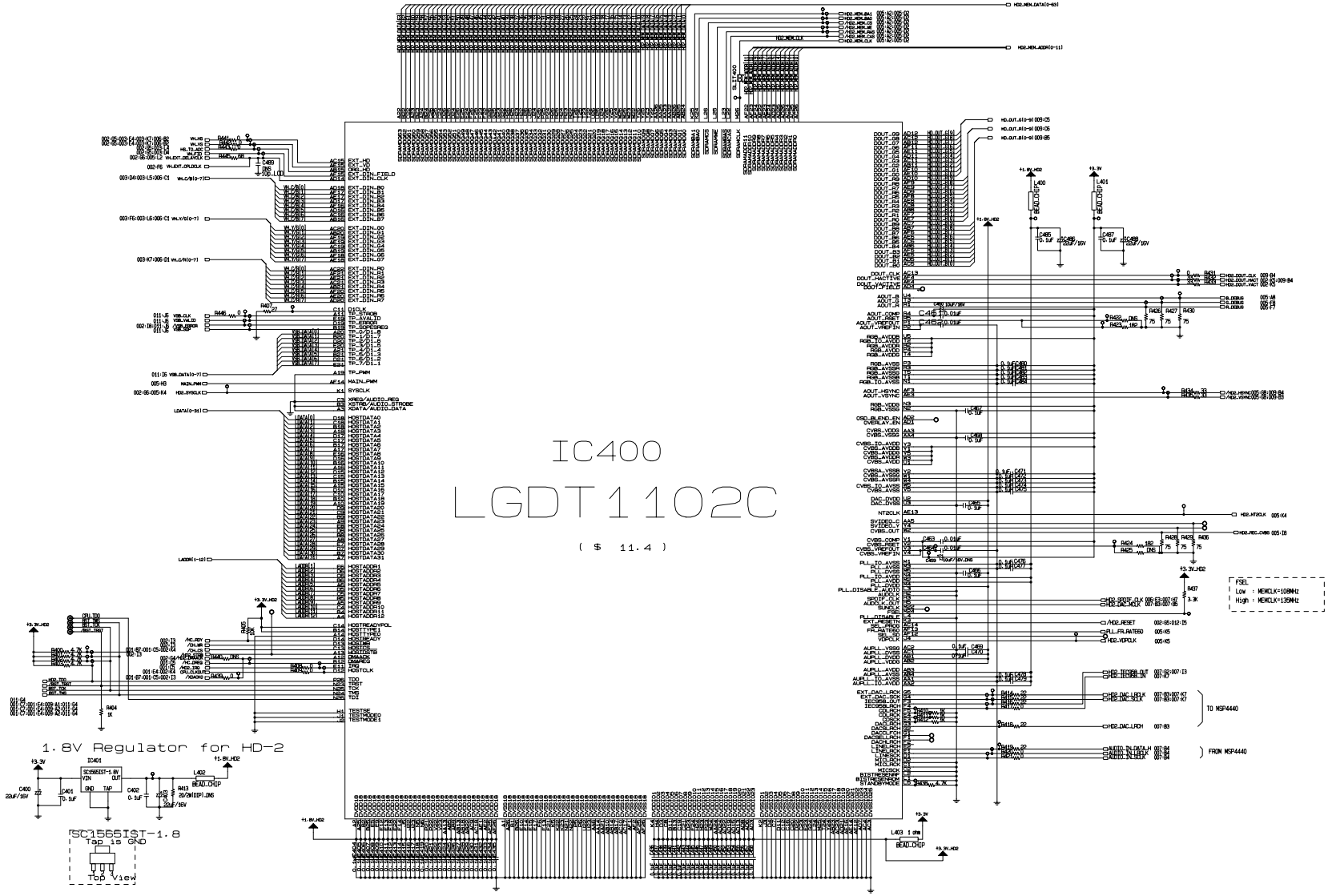
DATE: 2006. 02. 06.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		SIDE BOARD		
		R101	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R102	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R103	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R104	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R105	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R106	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R107	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		IR BOARD		
		LED1	0DL200000CA	SAM5670(DL-2LRG) BK Y-GREEN
		PA101	6712000013A	TSOP4438SO1 VISHAY 38KHZ AN
		C101	0CH4471K416	470PF 50V 5% NP0 2012 R/TP
		C102	0CH5101K416	100PF 50V 5% NP0 2012 R/TP
		C103	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C104	0CH4471K416	470PF 50V 5% NP0 2012 R/TP
		C105	0CH4471K416	470PF 50V 5% NP0 2012 R/TP
		L101	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		Q101	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q102	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		R101	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		R102	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		R103	0LCML00003B	MLB-201209-0120P-N2 5A MAG
		R104	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R105	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00

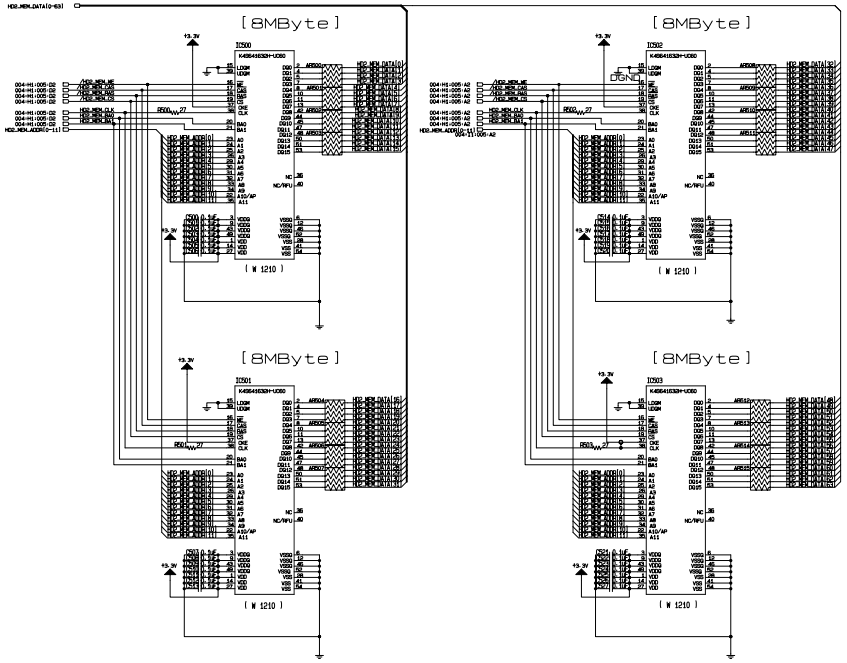

IC100
S3C44BOX
($ 4.42)
IC105 ROM1
IC106 ROM2
R168/R169
=) 4MByte Flash
IC107
IC108
($ 1.9)
(W 1210)
TP/D1_CLK Source Selection
Case CV_SEL[1-0] Is
When 00 =) NTSC
When 01 =)
When 10 =) VSB/QAM
When 11 =) X(High-Z)
WHEN THE PANEL IS PDP : POD-RB128 = DNS
WHEN THE PANEL IS LCD : INV_BRT-RB128 = 0
SELECT PANEL
PDP: R173
LCD : R1-45
Casse R151 Is
When ON =) Normal Mode
When OFF =) JTAG Mode
When 140 =) JTAG Mode
When 141 =) BST Mode
P101
P102
CON-R/A 10PIN
IC109
M37151
IC111
AT24C16
IC110
KIA7042
($ 0.1)
($ 0.06)
IIC CH4 0x50
(Yen 333)
SUB_POWER

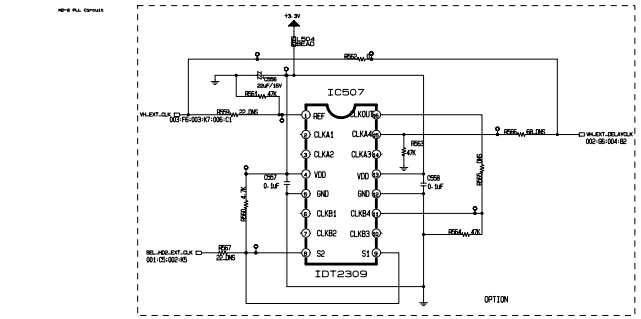
Serial Port
XC95288XL144-10

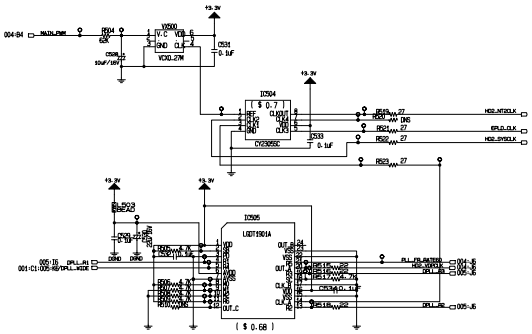


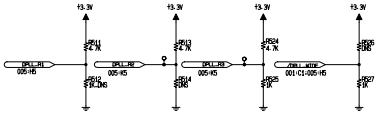

IC400
LGDT1102C
($ 11.4)
1.8V Regulator for HD-2
SC1565IST-1.8
Tap is GND
Top View
FROM MSP4440
TO MSP4440

Video Part







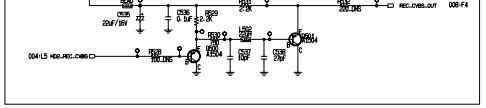


	PDP	50"/60"	42" XGA	42" VGA
DPLL_R4	R526	X	4.7K	X
DPLL_Mode	R527	1K	X	1K
DPLL_R1	R511	4.7K	4.7K	X
	R512	X	X	1K
DPLL_R2	R513	4.7K	4.7K	4.7K
	R514	X	X	X
DPLL_R3	R524	X	X	4.7K
	R525	1K	1K	X

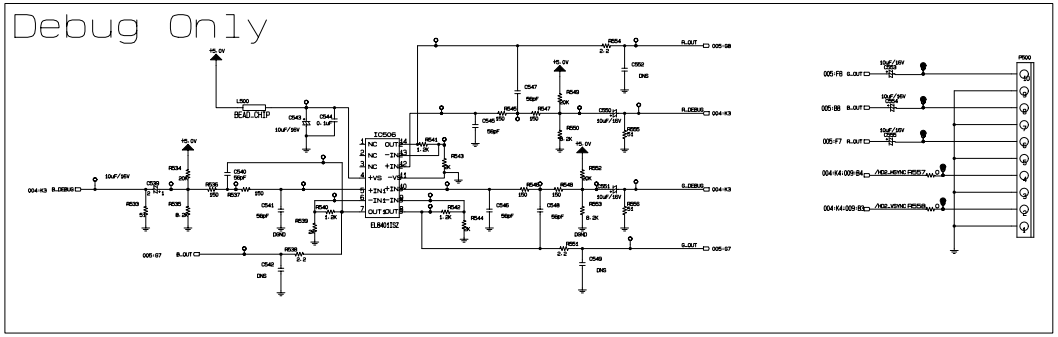
OUTA Output Frequencies
R[1:6] =) '110001' : 80.109MHz for 1360x768P =) Default 50" PDP
'110011' : 80.190MHz for 1360x768P
'110101' : 66.461MHz for 1024x768P =) 42" XGA PDP
'110111' : 66.529MHz for 1024x768P
'000001' : 74.175MHz for 1920x1080I/1280x720P
'000011' : 74.250MHz for 1920x1080I/1280x720P
'011001' : 36.818MHz for 852X480P =) 42" VGA PDP
'011011' : 36.855MHz for 852X480P

OPTION

VCR_REC_OUTPUT

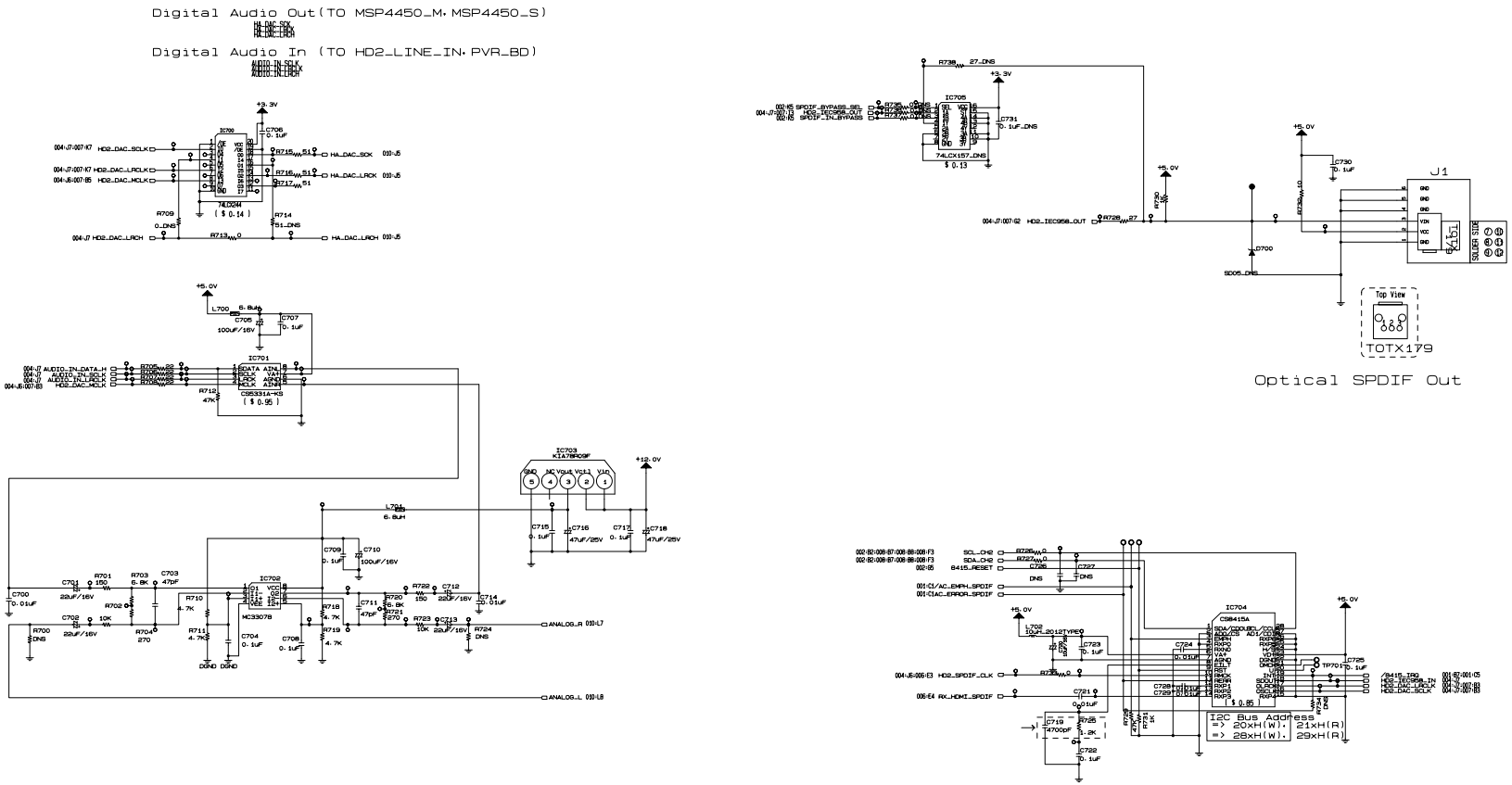


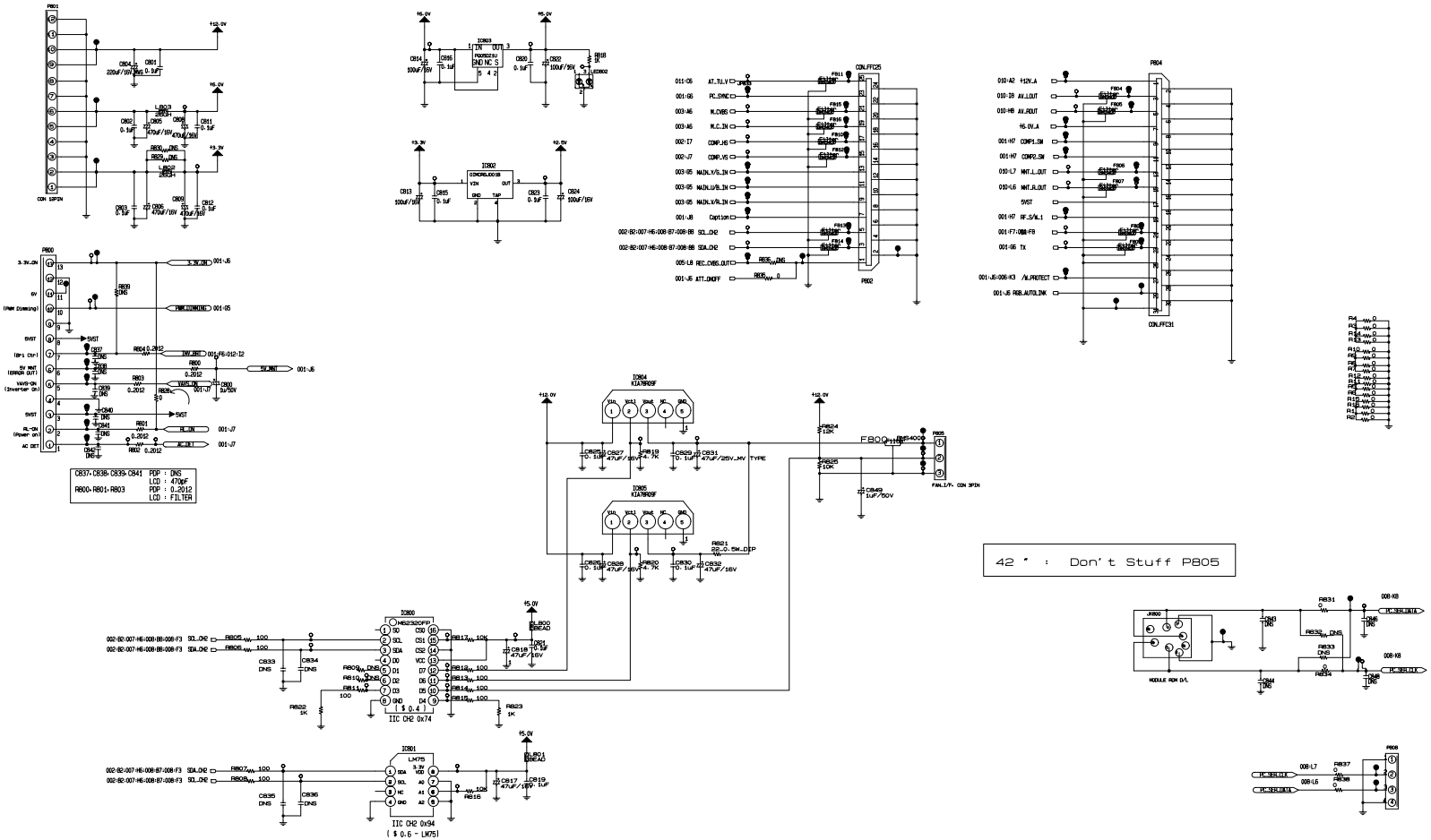
Debug Only



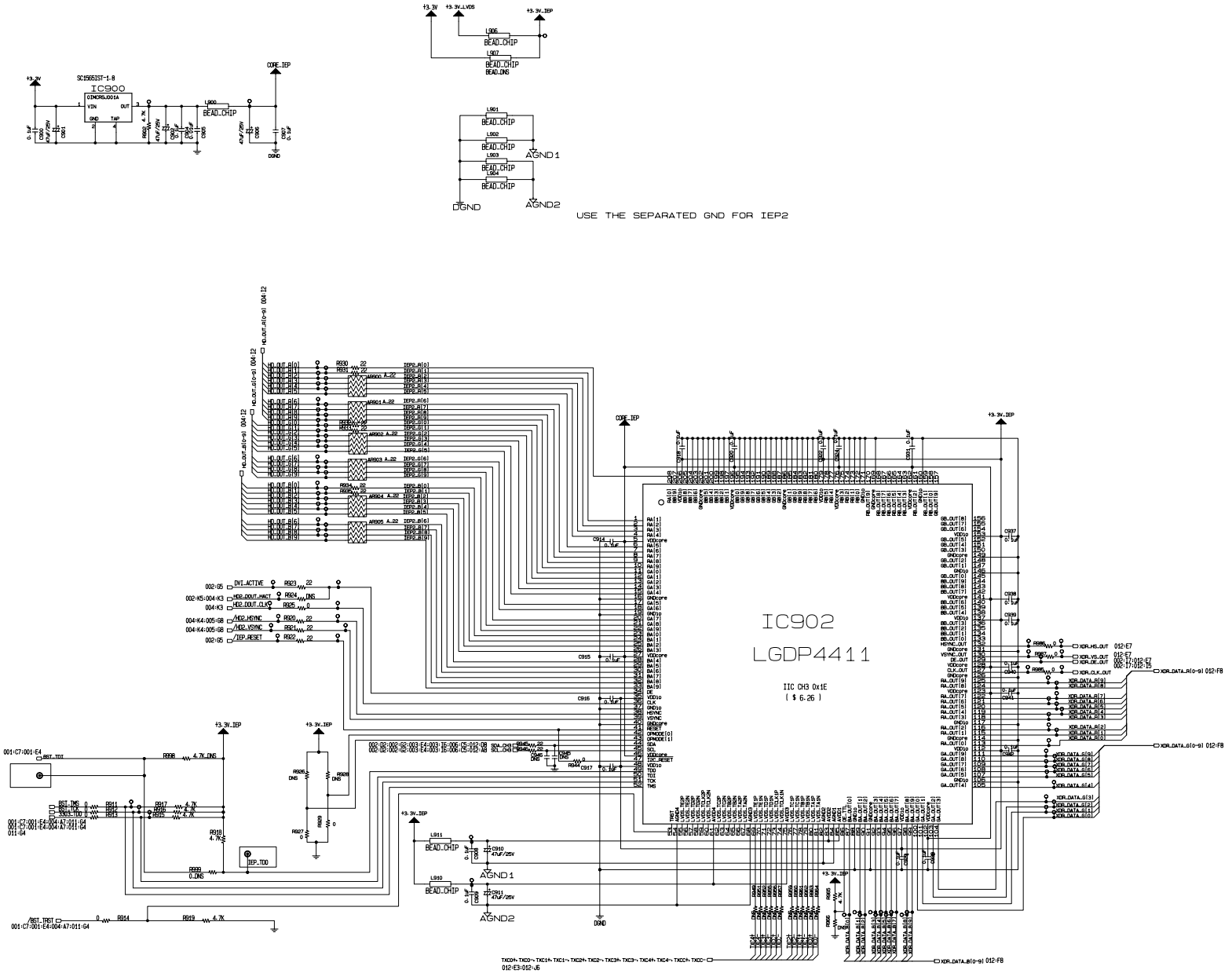
1.8V Regulator
SC1565IST-1.8
Top is GND
Si19011

Audio Part


Digital Audio Out(TO MSP4450_M, MSP4450_S)
Digital Audio In (TO HD2_LINE_IN, PVR_BD)
Optical SPDIF Out
I2C Bus Address
=> 20xH(W), 21xH(R)
=> 28xH(W), 29xH(R)
ANALOG_R
ANALOG_L
TOTX179

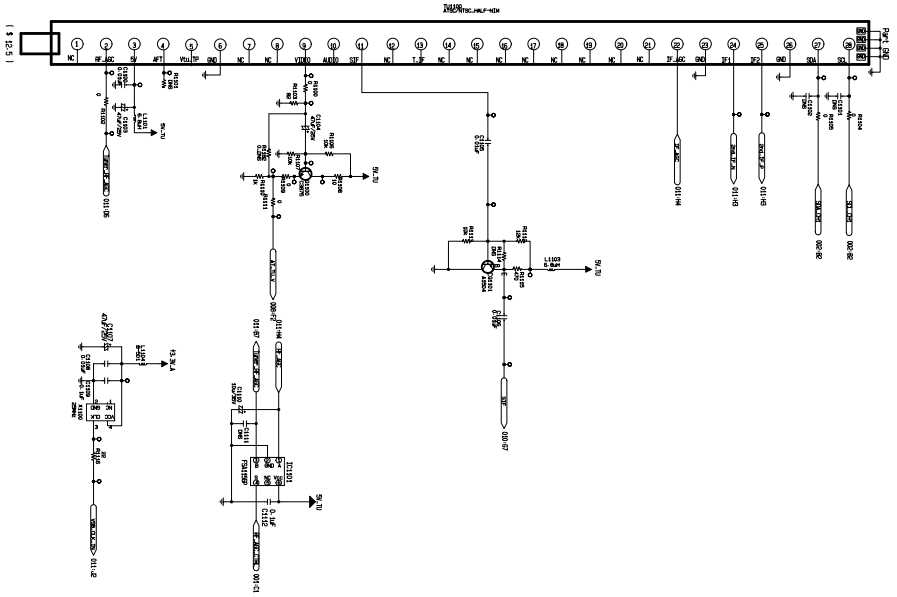


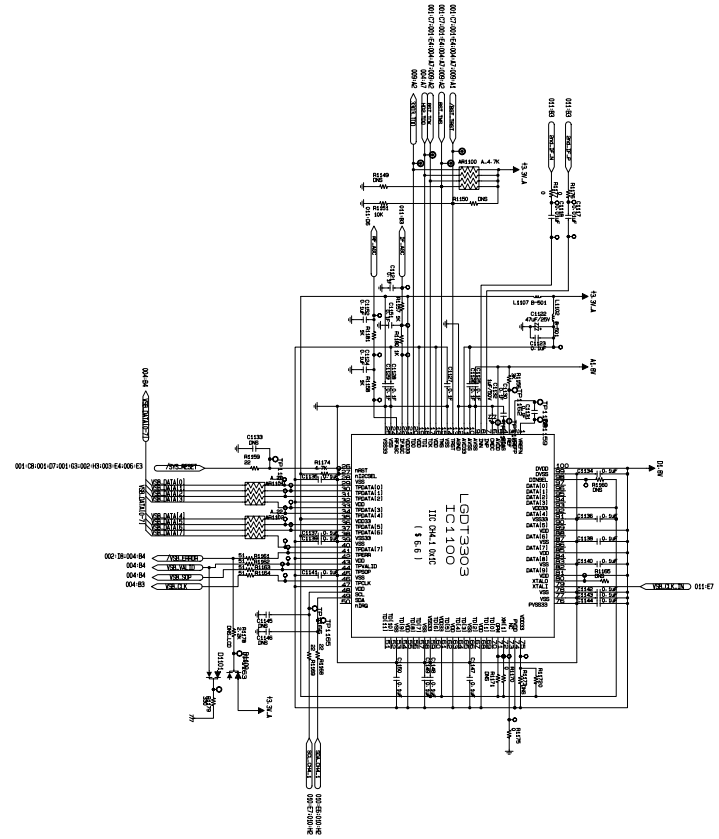
42" : Don't Stuff P805
P800
P801
P802
P804
P805
P806
IC800
IC801
IC802
IC803
IC804
IC805
CON_FFC25
CON_FFC31
MODULE ROM D/L

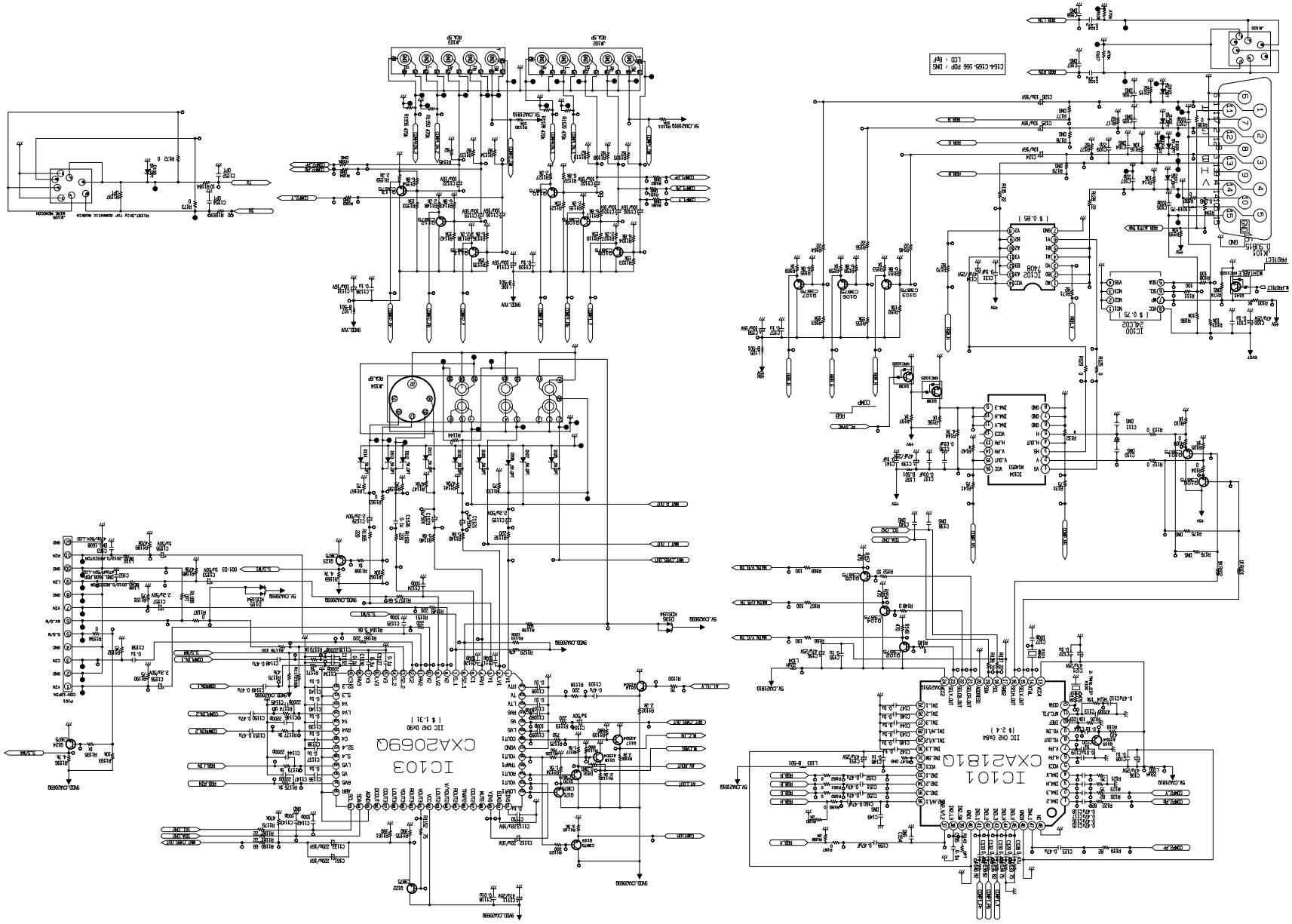

IC902
LGDP4411
IIC CH3 0x1E
($ 6.26)
IC900
SC1565IST-1.8
USE THE SEPARATED GND FOR IEP2
+3.3V
+3.3V_LVDS
+3.3V_IEP
CORE_IEP
DGND
AGND1
AGND2

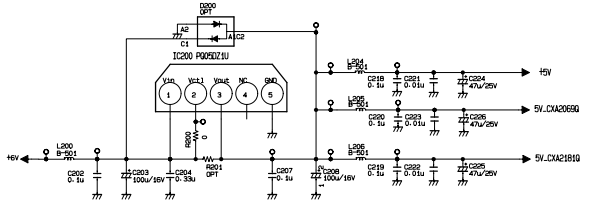
IC903
THC63LVD103
IC901
B2B715_DNS
IC904
Place close to Vcc Pin

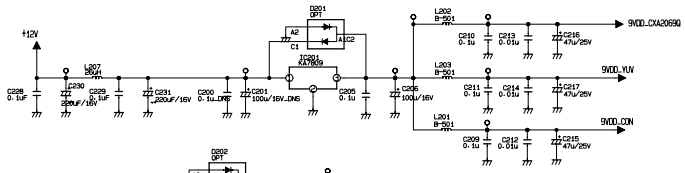
CON-10PIN
P1001
IC1002
NSP210A
IC1004
MSP4440

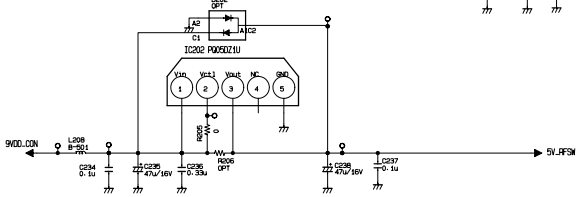


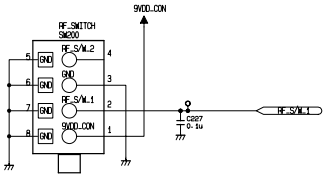


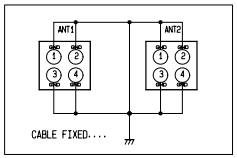

IC103
CXA2069Q
IIC CHG 0X90
($ 1.31)
IC101
CXA2181Q
IIC CHG 0X84
($ 2.4)
IC100
24LC02
($ 0.75)
D-SUB15
C154, C165, 166 POP : ONS
LCD : BPF

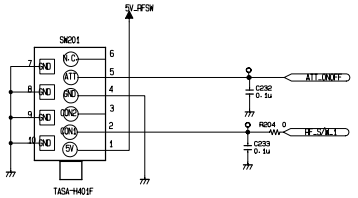

D200
OPT
IC200 P005DZ1U
Vin
Vctl
Vout
NC
GND
R200
0
L200
B-501
L204
B-501
L205
B-501
L206
B-501
+6V
+5V
5V_CXA2069Q
5V_CXA2181Q
C202
0.1u
C203
100u/16V
C204
0.33u
R201
OPT
C207
0.1u
C208
100u/16V
C218
0.1u
C219
0.1u
C220
0.1u
C221
0.01u
C222
0.01u
C223
0.01u
C224
47u/25V
C225
47u/25V
C226
47u/25V

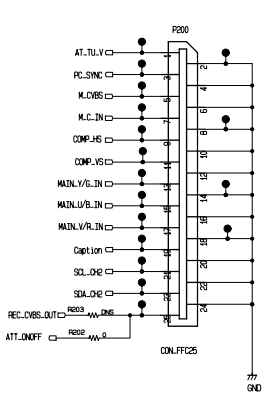

D201
OPT
IC201
XA7809
+12V
9VDD_CXA2069Q
9VDD_YUV
9VDD_CON
L202
B-501
L203
B-501
L201
B-501
L207
2B2H
C228
0.1uF
C230
220uF/16V
C229
0.1uF
C231
220uF/16V
C200
0.1u DNP
C201
100u/16V DNP
C205
0.1u
C206
100u/16V
C210
0.1u
C213
0.01u
C211
0.1u
C214
0.01u
C209
0.1u
C212
0.01u
C216
47u/25V
C217
47u/25V
C215
47u/25V

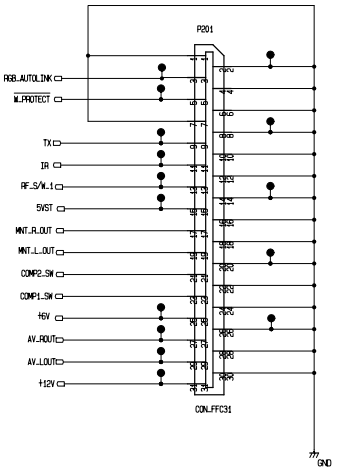

D202
OPT
IC202 P005DZ1U
Vin
Vctl
Vout
NC
GND
R205
0
9VDD_CON
L208
B-501
5V_RFSW
C234
0.1u
C235
47u/16V
C236
0.33u
R206
OPT
C238
47u/16V
C237
0.1u

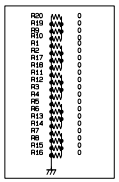

RF_SWITCH
SW200
RF_S/W_2
GND
RF_S/W_1
9VDD_CON
9VDD_CON
RF_S/W_1
C227
0.1u

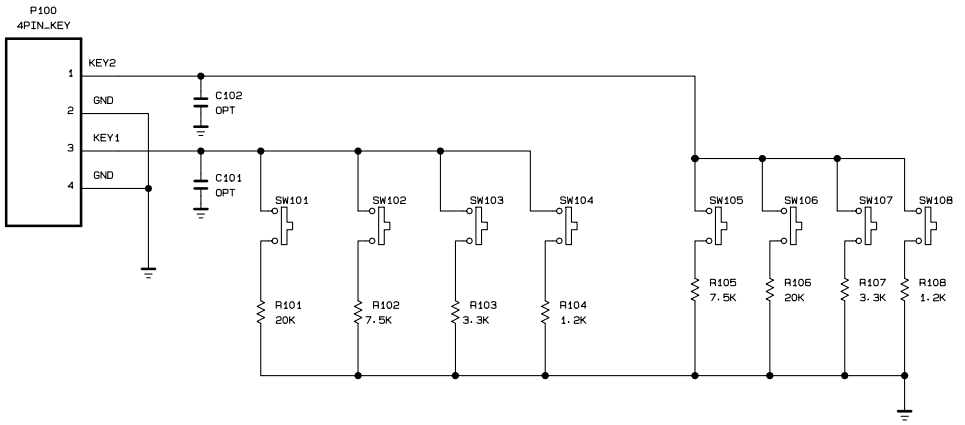

ANT1
ANT2
GND
GND
GND
GND
CABLE FIXED....


5V_RFSW
SW201
N.C
ANT
GND
GND
GND
5V
TASA-H401F
ATT_ONOFF
RF_S/W_1
C232
0.1u
R204
0
C233
0.1u

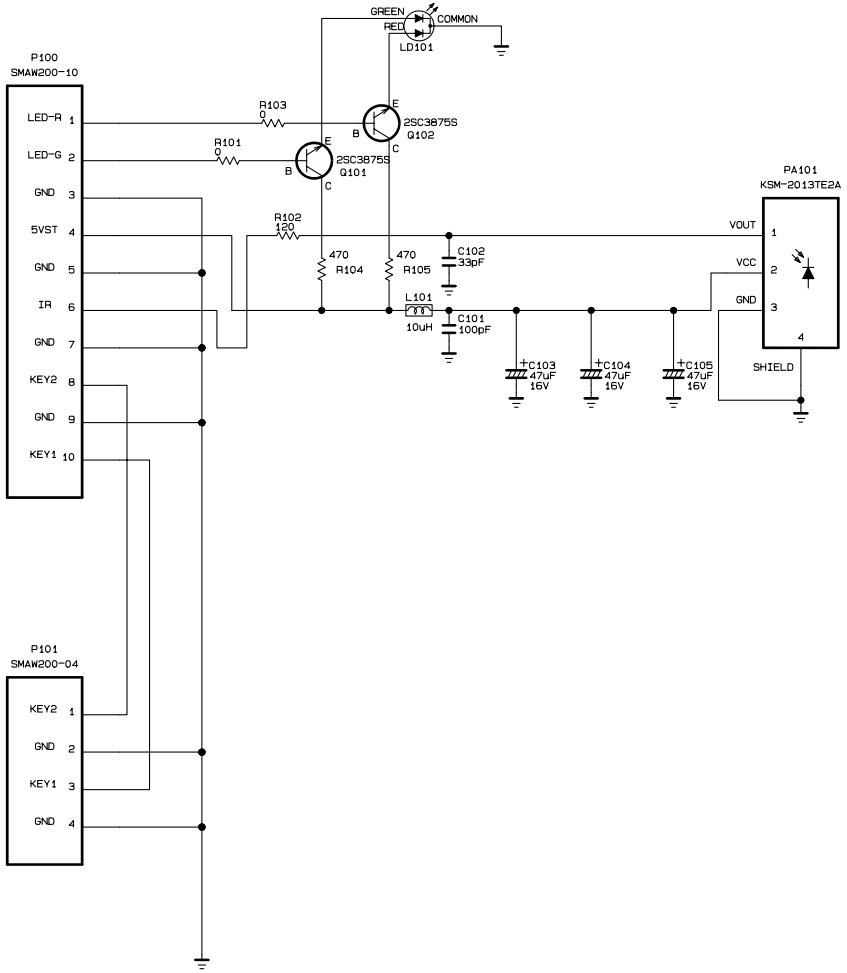

P200
AT_TU_V
PC_SYNC
M_CVBS
M_C_IN
COMP_HS
COMP_VS
MAIN_Y/G_IN
MAIN_U/B_IN
MAIN_V/R_IN
Caption
SCL_CH2
SDA_CH2
REC_CVBS_OUT
ATT_ONOFF
R203
GND
R202
0
CON_FFC25
GND


P201
RGB_AUTOLINK
W_PROTECT
TX
IR
RF_S/W_1
5VST
MNT_R_OUT
MNT_L_OUT
COMP2_SW
COMP1_SW
+6V
AV_ROUT
AV_LOUT
+12V
CON_FFC31
GND


R00
R19
R20
R1
R2
R17
R18
R11
R12
R3
R4
R5
R6
R13
R14
R7
R8
R15
R16
0
FOR SCREW HOLE SHORT



THE ⚠ SYMBOL MARK OF THIS SCHEMETIC DIAGRAM INCORPORATES
SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION.
FILRE AND ELECTRICAL SHOCK HAZARDS, WHEN SERVICING IF IS
ESSENTIAL THAT ONLY MANUFATURES SPECFIED PARTS BE USED FOR
THE CRITICAL COMPONENTS IN THE ⚠ SYMBOL MARK OF THE SCHEMETIC.



THE ⚠ SYMBOL MARK OF THIS SCHEMETIC DIAGRAM INCORPORATES
SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION.
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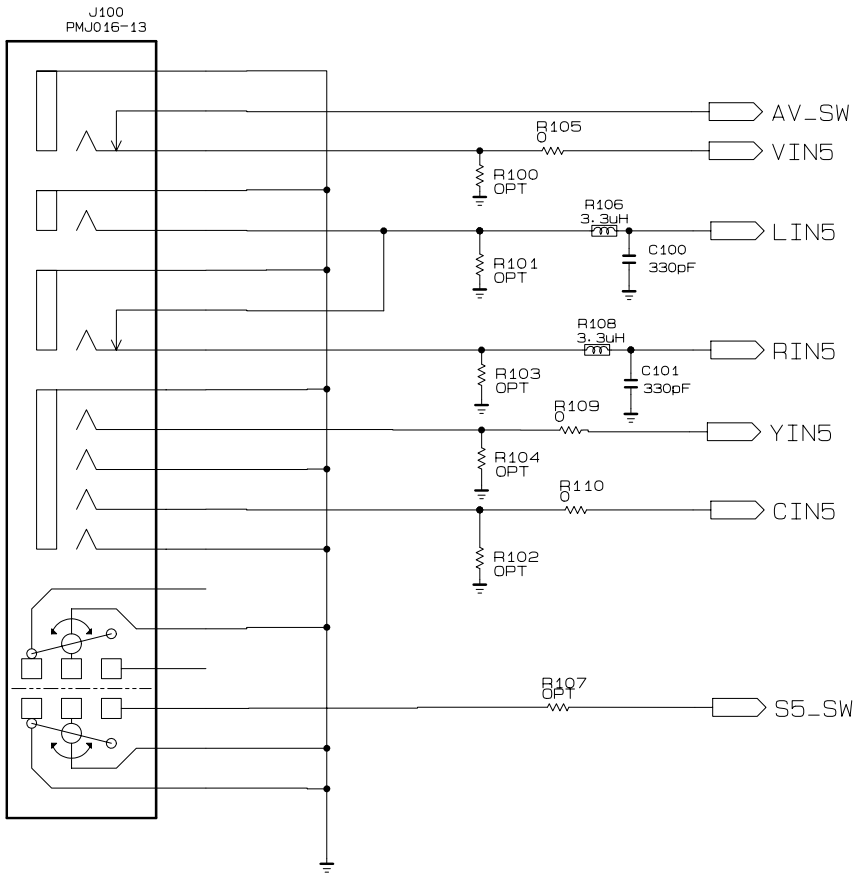

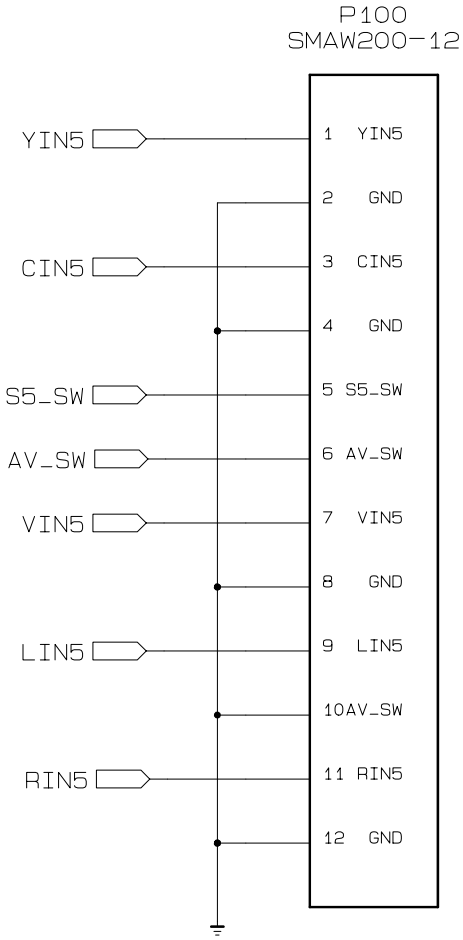

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